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*The*

# CHEMIST AND DRUGGIST

Established 1859

28 Essex Street, Strand, London, W.C.2

Registered as a Newspaper

No. 2899  
VOL. CXXIII

AUGUST 31, 1935

Annual Subscription (with  
Diary) 20/- Single Copies 9d.

## SALICIN B.P. FOR INFLUENZA

AMPLE SUPPLIES AVAILABLE TO MEET GROWING DEMAND

## ALKALOIDS

Goods covered by  
Dangerous Drugs Acts offered  
subject to all regulations

## FINE CHEMICALS

## EDINBURGH

Blandfield Works

## GLASGOW

32-4 Virginia Street

## LONDON

25 Christopher Street, E.C.2

## OPIUM DERIVATIVES

**T. & H. SMITH**  
LIMITED

# "National" Dispensing Bottles

are Strong, Serviceable and Suresealing!

NEATLY PACKED IN 3 AND 6 DOZEN SIZE, NON-RETURNABLE CARTONS

- ★ CONVENIENT IN SIZE
- ★ EASY TO HANDLE
- ★ UNIFORM IN QUANTITY

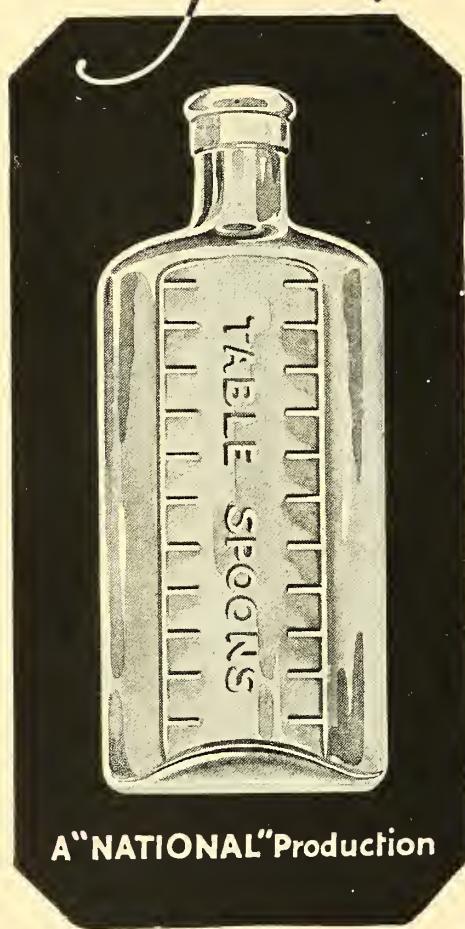
CARTONS OF EITHER 3 or 6 DOZ. BOTTLES  
THROUGHOUT THE RANGE

ALSO

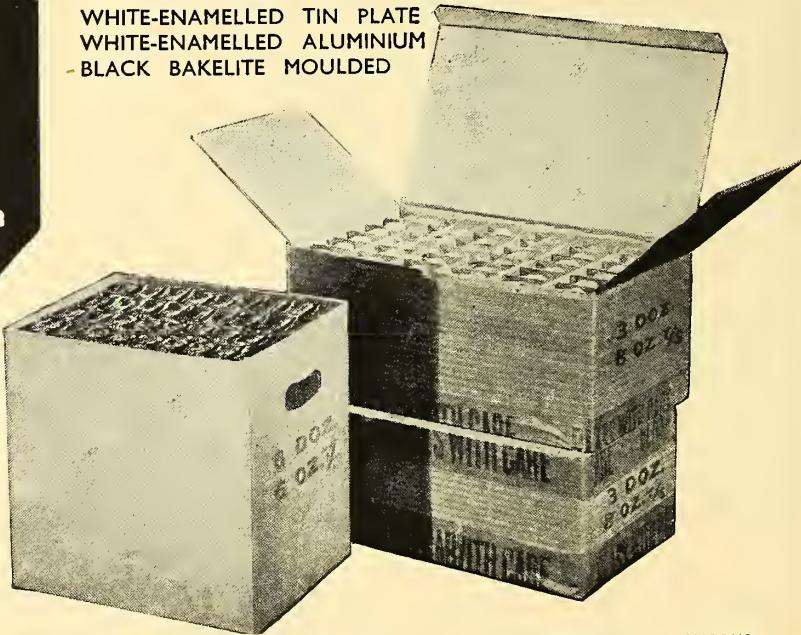
Cork mouth Bottles WASHED & PAPERED  
Screw „ „ „ WASHED & CAPPED

SCREW CAPS SUPPLIED in

WHITE-ENAMELLED TIN PLATE  
WHITE-ENAMELLED ALUMINIUM  
BLACK BAKELITE MOULDED



May we advise  
Name and Address of  
your nearest  
"National"  
distributor?



**NATIONAL GLASS WORKS (YORK) LTD.** WORKS :  
FISHERGATE, YORK

'Phone : HOLborn 2146

1 Charterhouse St., London, E.C.1

(WHOLESALE ONLY)



**"I'm interested in  
anything that helps  
my profits....**



**that's why  
my interests  
are secured in**

# **RALEIGH**

**THE ALL-STEEL BICYCLE"**

If profits matter—the Raleigh Carriers matter equally. Remember the onus of any transaction rests with you until the goods are delivered. That's where the Raleigh helps. Raleigh deliveries are reliable, punctual deliveries. Economical too. It's the extra quality in Raleigh materials—the extra heavy enamelling and finish—that accounts for their long life and smart appearance, that makes them a virile advertisement wherever they are seen.

Unless you are in business simply for the good of your health it's as important to specify RALEIGH Carriers as it is to buy your stock competitively and keenly.

THE RALEIGH CYCLE CO. LTD., NOTTINGHAM  
DEPOTS AND AGENTS EVERYWHERE

**LOW GRAVITY  
CARRIER** (as illustrated)

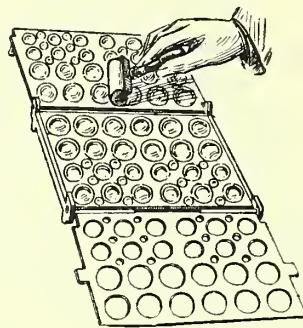
**£6.19.6** (Cash)

or 12 monthly payments of 14/- (no deposit). (22" Frame). Specially designed for carrying heavy or bulky loads without skidding—20" front wheel and larger basket fitting. An instantly operated stand built into the carrier is an important feature. Every Raleigh Carrier Cycle has the finest equipment, BROOKS' SADDLE, DUNLOP TYRES, etc.

**STANDARD  
CARRIER**

(22" Frame). At the same price and terms. Basket can be supplied at an extra charge of 7/6.

# Cachets and Cachet Machines—



Thos. Christy & Co., Ltd., offer to the trade an unrivalled service in cachets. Cachets both plain white and coloured, in sizes 000, 00, 0, 0 $\frac{1}{2}$ , 1, 1 $\frac{1}{2}$  and 2 are always in stock and can be delivered immediately in perfect condition.

Filling and Closing machines for all sizes of cachets are available at prices from 4/6 to 52/6.

*Write for a copy of  
the illustrated leaflet*

**THOS. CHRISTY  
& CO., LTD.,**  
Old Swan Lane, LONDON, E.C.4

## *An Opportunity—*

**ZEPTO PENCIL**  
TARTAR REMOVER

For use is  
**ZEPTO PENCIL**

Removes the  
stains of Nicotine  
Cigarette Leaves  
of every Tobacco  
Reveals the Natural  
beauty of the Teeth  
Does not irritate & Irritates not

**PRICE NINEPENCE**

**ALL TEETH NEED A ZEPTO PENCIL**

**ZEPTO PENCIL**  
Instantly removes Tartar from the Teeth

→  
Display Box  
containing  
1 doz. pencils

9p  
WRITING TEST IN 30 SECONDS  
WITHOUT FINGERING THE SPANNER

**ZEPTO**  
**display parcel**  
**with bonus of 1 doz.**  
**on orders of 4 doz.**

**Cost of parcel 21/-**  
**Retail value 45/-**

Profit 53% on selling price

Each Parcel includes new and attractive  
Show Stand

**THOS. CHRISTY & CO. LTD.**  
OLD SWAN LANE, LONDON, E.C.4



**THERE IS  
NO BETTER  
MEDIUM FOR  
SELLING —**

**Usual Rate  
£50  
PER PAGE**

*Sixty Pounds, next  
or Facing Matter*

# ANN SEYMOUR

*renders invaluable  
service to Advertisers*

The intimate personal contact which Ann Seymour, the famous beauty editress, has achieved with readers of WOMAN and BEAUTY enables her to render an invaluable service to advertisers.

During the first five months of 1935 she received 38,260 letters, an average of 7,652 a month, mostly seeking advice and guidance on matters connected with Beauty, Dress, Health and comfort and efficiency in the Home. To every letter Ann Seymour sent a personal reply frequently with a recommendation to buy. The value of this service may be gathered from the following analysis of some of the personal recommendations made from January to May, 1935.

|               |       |                                      |
|---------------|-------|--------------------------------------|
| FACE CREAMS   | 4,461 | HAIR PREPARATIONS                    |
| FACE LOTIONS  | 3,455 | (Shampoos, Brilliantine, etc.) 2,240 |
| FACE PACKS    | 186   | REDUCING CREAMS, etc. 371            |
| DEPILATORIES  | 399   | EYE PREPARATIONS                     |
| DEODORANTS    | 346   | (Eyelash Dye, Mascara, etc.) 947     |
| MISCELLANEOUS |       | 2,397                                |

It is this service which is of inestimable value to the advertiser and which makes WOMAN and BEAUTY such a paying medium for advertising anything that women buy.

*Health and Beauty Products*

**TRY IT IN THE  
NOVEMBER ISSUE of  
Woman and Beauty**

This special issue will be particularly attractive both for reader and advertiser. For the former there will be a free inset whilst the advertiser will receive a big bonus in the way of increased circulation. The issue will be extensively advertised in the Press and it is anticipated that the circulation will be

**Over 170,000 Copies  
Press Day—September 20**

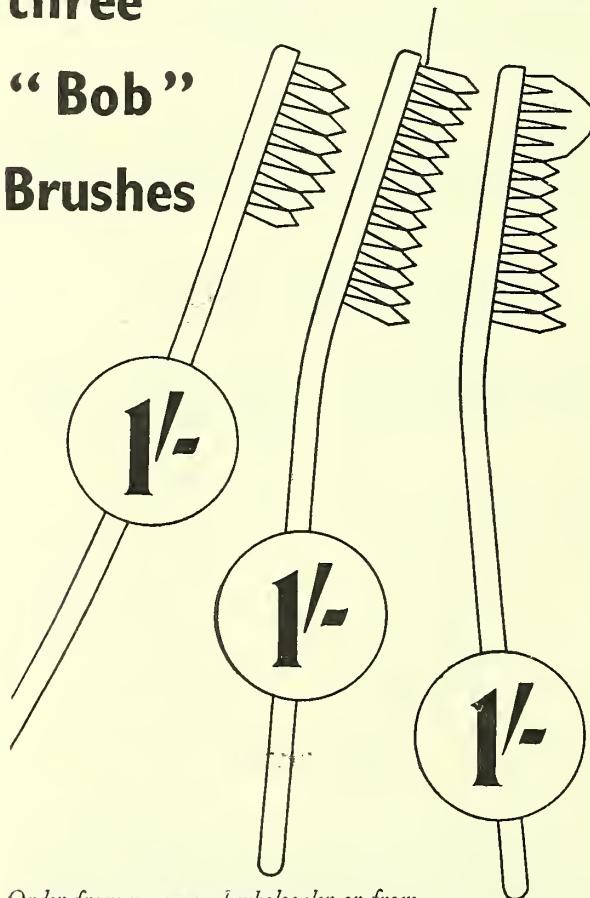
**CHAS. E. MANDER, Advertisement Manager, The Amalgamated Press Ltd.  
The Fleetway House + Farringdon Street + London, E.C. 4**



Nine toothbrushes, to sell at 6d.-2/-.  
A dental plate brush. Two shaving  
brushes, 5/- and 15/-. The new  
pneumatic hairbrush, ladies, 12/6,  
military 10/6.

HALEX BRUSHES  
ARE NATIONALLY  
ADVERTISED ALL  
THROUGH THE YEAR

## The three “Bob” Brushes



Three fine toothbrushes—each at a shilling. Each packed—as all Halex toothbrushes are—in a cellophane container. They can be seen on your counter—examined, even felt—but, until they are sold, they cannot be touched by hand! Always carry a good stock of HALEX brushes—toothbrushes, dental plate brushes, shaving brushes, hairbrushes. But the three “Bob” Brushes—they are the winners in the popularity stakes!

# HALEX

Registered Trade Mark

GOOD BRISTLES  
“THEY STAND UP”

MADE IN ENGLAND

Order from your usual wholesaler or from—

THE BRITISH XYLONITE COMPANY LIMITED • HALE END • LONDON • E.4

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**QUALITY PRODUCTS**  
**A MODERN TREATMENT FOR ARTERIO SCLEROSIS**

This preparation has only been added to our list of therapeutical products after many and prolonged experiments conducted by our medical friends, to whom we gladly acknowledge thanks for valuable co-operative assistance.

## TABELLAE SPHYGMONE

Lowers blood pressure without depressing effects on the patient. We have had gratifying reports to the effect that treatment with Sphygmone lowers the systolic pressure with relatively little change in the diastolic, and hence a lower pulse pressure. Reports of general improvement in health in cases of SENILE ARTERIO SCLEROSIS are also to hand. The dose is one or two tablets 3 times a day. You can recommend these tablets with confidence in all cases of ARTERIO SCLEROSIS.

|         |     |      |       |
|---------|-----|------|-------|
| PRICE : | 100 | 250  | 1,000 |
|         | 5/- | 10/- | 32/-  |

**HOUGH, HOSEASON & CO. LTD.**  
**MANUFACTURING CHEMISTS**

Bridge Street, MANCHESTER

\*Phone: BLACKfriars 3895/6, 7435

(2)  
Grams: "Salicylate, Manchester."



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# SCREW CAPS

## WITH CONCEALED THREADS

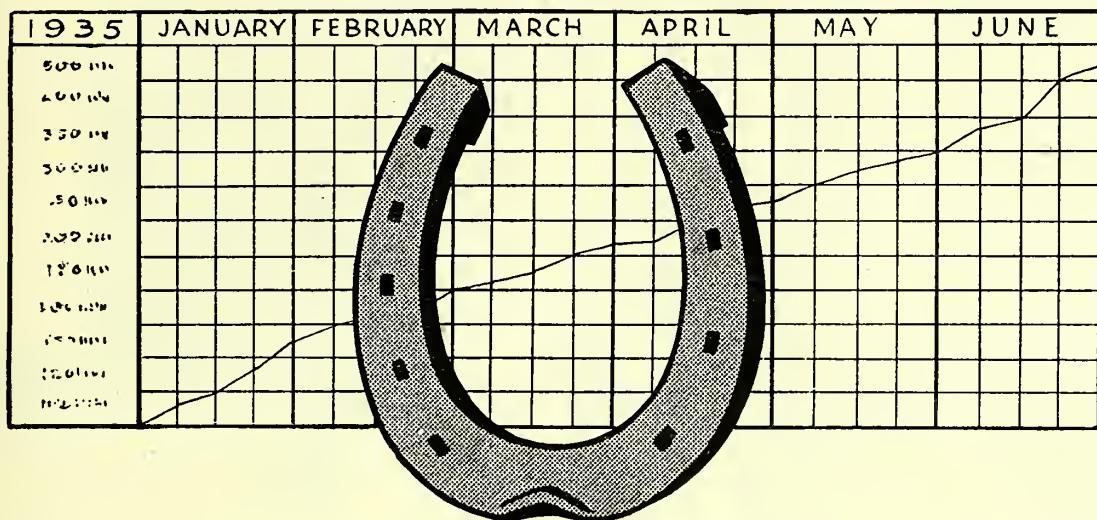
### IN ALL SHAPES AND SIZES

Supplied in all Metals in Gilt, Nickel or Enamel for Face Creams, Lotions, etc.

**Baker Metal Stopper Co. Ltd.**  
Hadley Street, BIRMINGHAM 18

Telephones: Northern 1562

Telegrams: "SCREW CAP, B'HAM."



*It isn't Just Luck  
that Sells Millions & Millions of Moorlands*  
**it is REPUTATION—  
QUALITY-NATION WIDE  
ADVERTISING & DISPLAY★**

**MOORLAND**  
BRAND  
**INDIGESTION TABLETS**

★ Your own display is a vital link in the sales chain. It connects with the advertising—it makes the passer-by buy—it keeps profitable purchases always on the move.

No competitive line enjoys such tremendous customer-satisfaction as Moorlands. Its reputation is unrivalled and grows bigger and bigger through constant recommendation. Then there is the strong frontal-attack of vigorous, convincing advertising, which keeps the sales curve of new business upward. Add to these the potency of good display at the point of sale, i.e. the window or the counter—and you have the obvious reasons for the huge success of Moorlands.

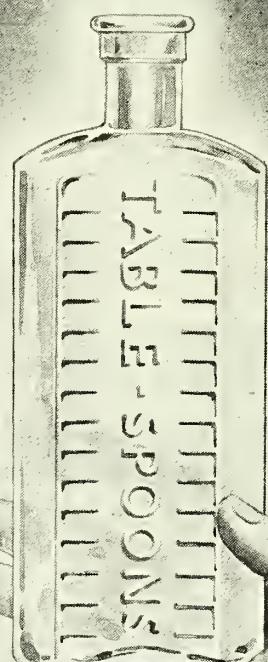
**W. B. CARTWRIGHT LTD., Rawdon, Leeds**

*The Public will have Moorlands*

# BOTTLES

## THAT ARE BETTER

British Made



For over 80 years we have been making bottles to meet the needs of the Trade in hand or machine made of all kinds.

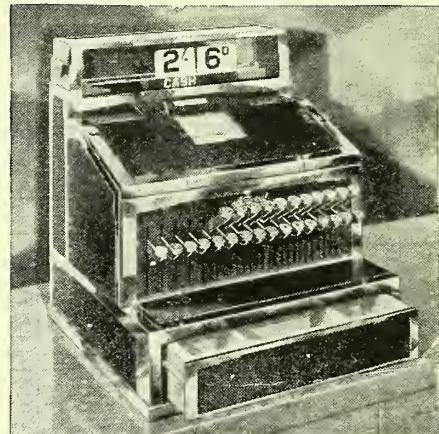
MEDICALS  
POISONS  
EMBROCATION  
PERFUME &c.

FREDERICK  
**HAMPSON**  
LIMITED

Perseverance Glass Wks.

**SALFORD 5**

ESTABLISHED 1861



## HERE IT IS!

The beautiful new 1935 National Cash Register. Only a few weeks old, it is already helping scores of chemists to take full advantage of improving trade conditions. If you, too, realise the vital importance of having an EFFICIENT cash-checking system, we shall be glad to supply full details. Time lost is money lost. Write, 'phone or call:—

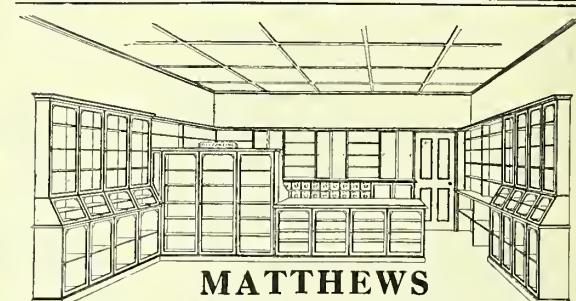
**The National Cash Register  
CO., LTD.**

225 Tottenham Court Rd., LONDON, W.1

Telephone: Museum 9811 (9 lines)

**Armstrong's**  
TAPER  CORKS

ARMSTRONG CORK CO. LTD.,  
ALDWYCH HOUSE, LONDON, W.C.2



**MATTHEWS**

CHEMIST SHOP FITTERS

14 & 16 MANCHESTER ST.,

LIVERPOOL, 1 Tel.: Cent. 2695

Established 1848

# Everybody's first remedy for Catarrh



## POTTER'S CATARRH PASTILLES

P.A.T.A.

1s. 3d.

11/- dozen

in boxes of  $\frac{1}{2}$  dozen

*Continuous Advertising ensures certain sales*

POTTER & CLARKE, Ltd., 60-64 ARTILLERY LANE, LONDON, E.1

Grams: Horehound, Phone, London

Phone: Bishopsgate 4761 (5 lines)

AND AT 77 DANTZIC STREET, MANCHESTER, 4

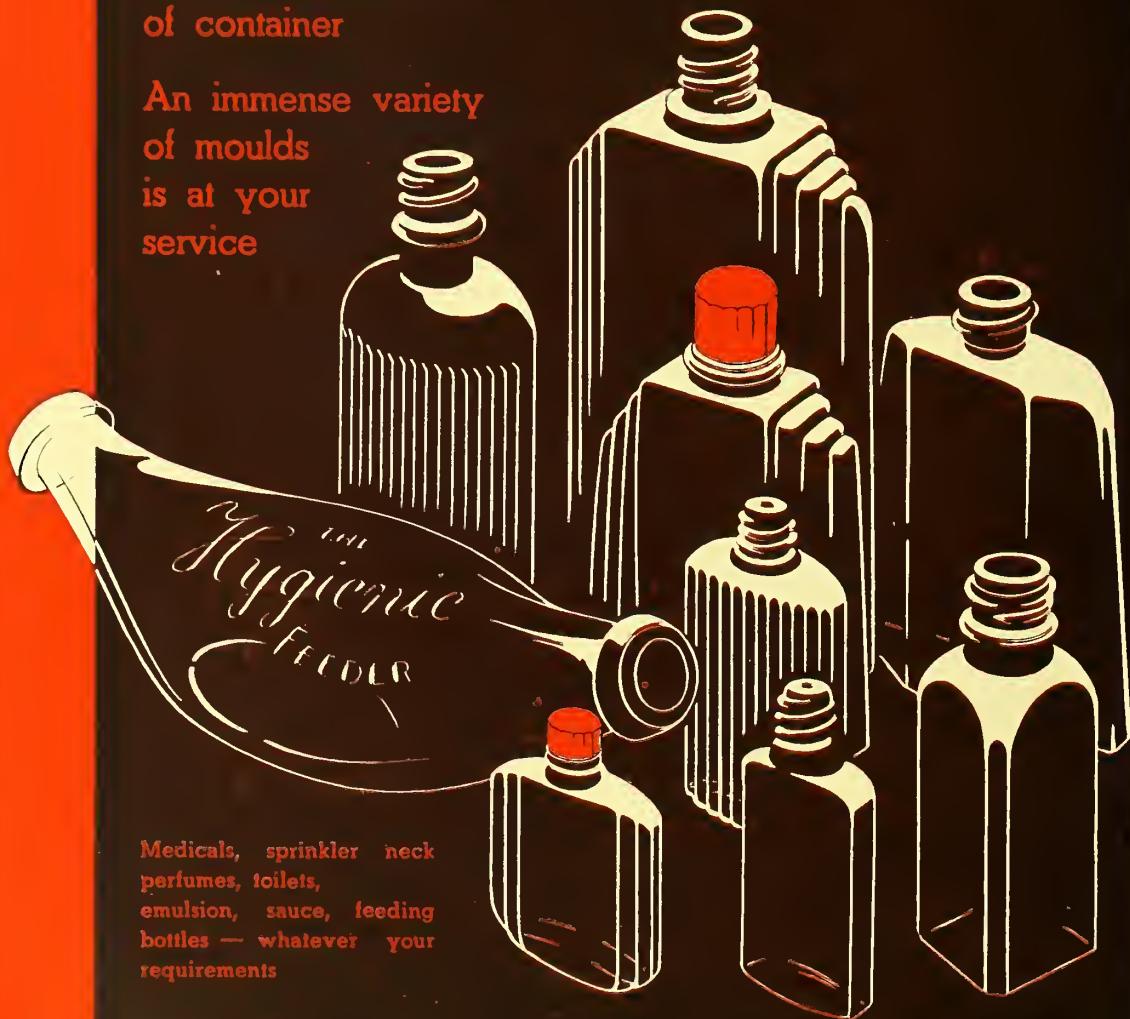
# Bottles

of distinctive quality and design

Let us solve your glass packaging problems

We make every type  
of container

An immense variety  
of moulds  
is at your  
service



## Lax & Shaw Ltd.

WHOLESALE & EXPORT ONLY

Registered Office : **Albert Glass Works, Hunslet, Leeds 10**  
Three Factories : **Albert, Clarence and Donisthorpe**



# PLASTER SALES TREBLED !

During the past few months the sales of Dalzo and National Plasters and Dalmoplast Wound Dressing have been trebled. This is mainly attributable to chemists displaying the

## Ingenious Pagoda Display

for

**DALZO**

## Zinc-Oxide Self-Adhesive Plaster

## NATIONAL

## Rubber Adhesive Plaster

and DALMAPLAST

## **Self-Adhesive Wound Dressing**

The result of many experiments in the presentation of these three popular lines is shown in the illustration of our new "Pagoda" stand—a remarkable example of display craft. Ingenious, attractive and useful, it is undoubtedly a great stimulus to sales.

"DALZO" the guaranteed Zinc-Oxide Plaster and NATIONAL Rubber Adhesive Plaster is now supplied on spools in special dust-proof containers. DALMAPLAST scientific self-adhesive wound dressings are packed in handy tins, which now contain an increased quantity.

IMPORTANT. — ALL THESE LINES ARE RESERVED  
TO THE CHEMIST and are NOT supplied to  
multiple stores

Enquire of your wholesaler or write today for details of a specially attractive offer

### Note its special advantages

It is despatched complete, stocked and ready for display. It merely has to be taken out of its container.

It is far more effective than the open tray and eliminates the risk of pilferage.

It takes up a surprisingly small amount of counter space.

**A. de ST. DALMAS**  
& Co. Ltd., Junior St., Leicester

London Depot: 56-58 Clerkenwell Road, E.C.1  
Other Depots at Leeds, Bradford, Dublin

# RENDELL'S

## THE SAME FAMILIAR PACK-

known throughout the whole civilised World.

Nothing new and experimental, but a product of unequalled merit, recognised and approved as the standard contraceptive.

For 50 years Rendell's have held the confidence of users, and to-day the public trust in them is stronger than ever. By supplying Rendell's, goodwill is developed 'twixt customer and chemist, bringing regular purchasers in its train.

The National Advertising Campaign now in progress is building business in excess of all expectations, and to reap the full benefit it is advisable to use the latest display material now available.

Write at once for full particulars :-  
W.J. RENDELL LTD., Hardwick House,  
161/5 Rosebery Avenue, London, E.C.1

**FAMOUS  
SINCE  
1885**



HARDWICK HOUSE,  
161-165 ROSEBERY AVENUE,  
LONDON, E.C.1.

# APOLLO



## PURE STICK LIQUORICE JUICE

May be obtained in  
1 oz. divided as well  
as 2 oz. divided sticks,  
also 3 oz. and 4 oz.

A SMOOTH, SOLUBLE, WELL-MADE STICK, GUARANTEED ABSOLUTELY FREE FROM ADULTERATION. CONTAINS THE HIGHEST PERCENTAGE OF GLYCRRHIZIN.

THE CHEMIST WHO SELLS "APOLLO" BRAND KNOWS THAT HE IS GIVING HIS CUSTOMERS A PRODUCT OF THE HIGHEST QUALITY.

MADE BY THE LARGEST LIQUORICE MANUFACTURERS IN THE WORLD

MACANDREWS & FORBES LTD.  
BUSH HOUSE, LONDON W.C.2

# SANDALWOOD OIL

Distilled from SANTALUM ALBUM. linn. at the MYSORE GOVT. FACTORIES

90%

ACTUAL SANTALOL  
GUARANTEED B.P.  
& U.S.P. STANDARDS  
FOR FURTHER  
INFORMATION APPLY



TRADE COMMISSIONER  
for MYSORE in LONDON  
GRAND BUILDINGS  
TRAFalGAR SQ., W.C.2

THE METHODS OF DISTILLATION AND CONTROL ADOPTED IN THE FACTORIES OF THE MYSORE GOVERNMENT ARE SUCH THAT BUYERS MAY REST ASSURED THAT EVERY CONSIGNMENT OF EAST INDIAN SANDALWOOD OIL RECEIVED BY THEM WILL BE OF PRACTICALLY IDENTICAL COMPOSITION



Sole Agents in U.S.A.:

MESSRS. W. J. BUSH & CO., INC., 11 EAST 38th STREET, NEW YORK

Sole Agents in Canada:

MESSRS. W. J. BUSH & CO. (CANADA) LTD., 432 ST. HELEN ST., MONTREAL

Sales Agent, South America:  
Agent, Germany, Balkan  
States and Central Europe:

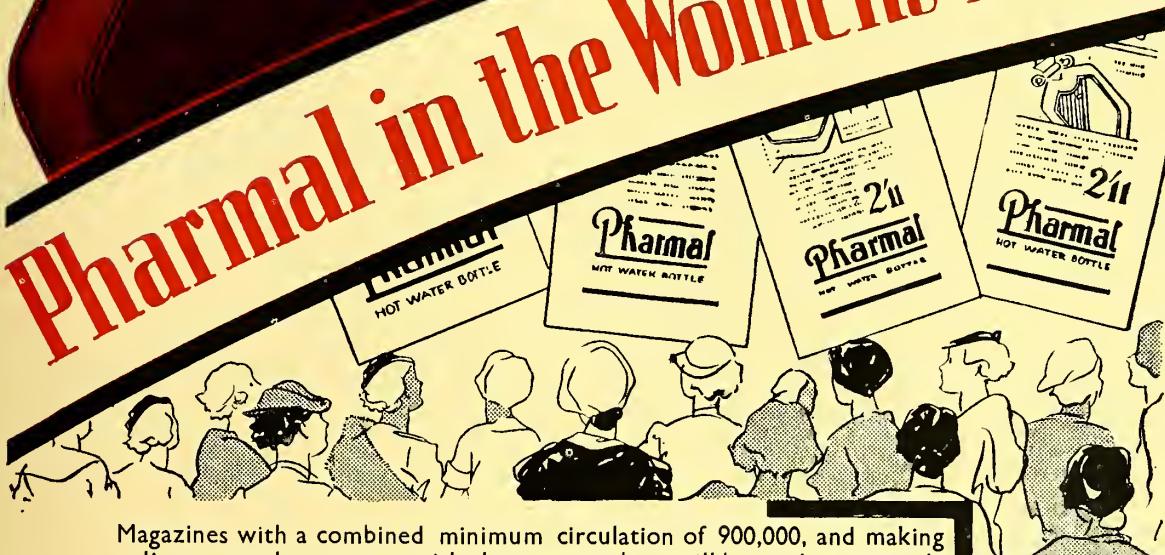
MR. LEOPOLD LASERSON, 11 BEAUCHAMP STREET, LONDON, E.C.1

MR. LEOPOLD LASERSON, ALTE JACOBSTRASSE 20-22, BERLIN, GERMANY, S.W.68



GOOD  
HOUSEKEEPING  
WOMANS JOURNAL  
WELDONS LADIES  
JOURNAL  
WOMAN & HOME

# Pharmal in the Women's Press



Magazines with a combined minimum circulation of 900,000, and making a direct appeal to women with the means to buy, will be used consistently during the coming season, to attractively advertise the Pharmal Hot Water Bottle. This advertising, and the intrinsic merits of the bottle itself, will mean a greater demand for the Pharmal than ever before. Profit from this Pharmal publicity. Place the Pharmal in prominent positions in your premises.

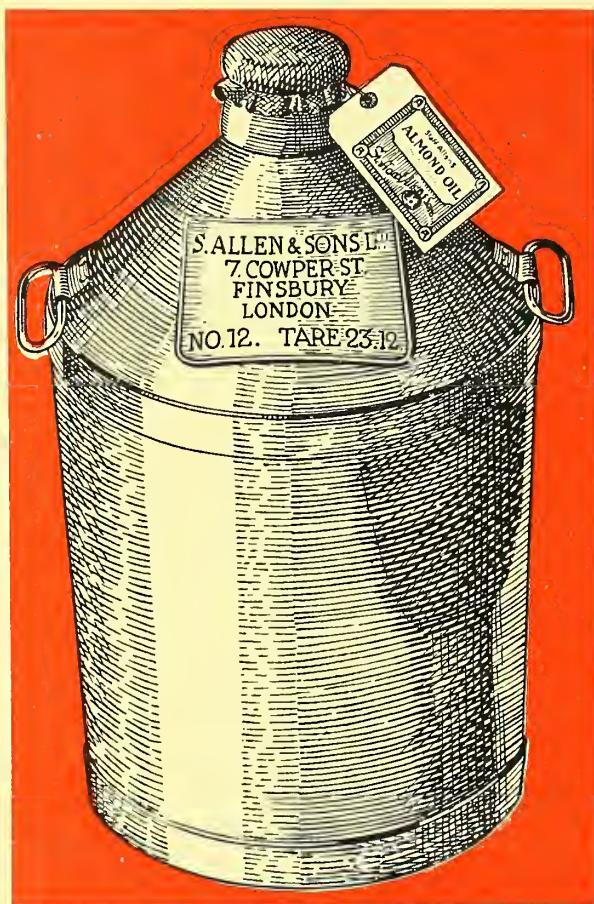
Each bottle guaranteed and packed in an attractive display carton. Fixed retail price 2/11. Supplied only through Wholesale houses.

THE LEYLAND & BIRMINGHAM RUBBER CO. LTD., LEYLAND, LANCS.

# Pharmal

HOT WATER BOTTLE

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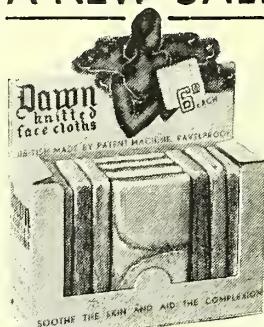
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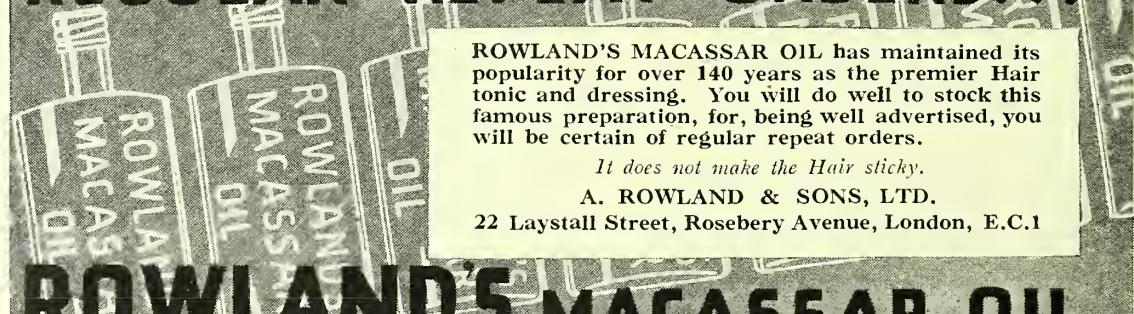
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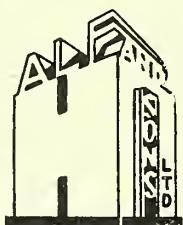


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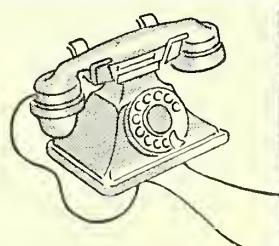
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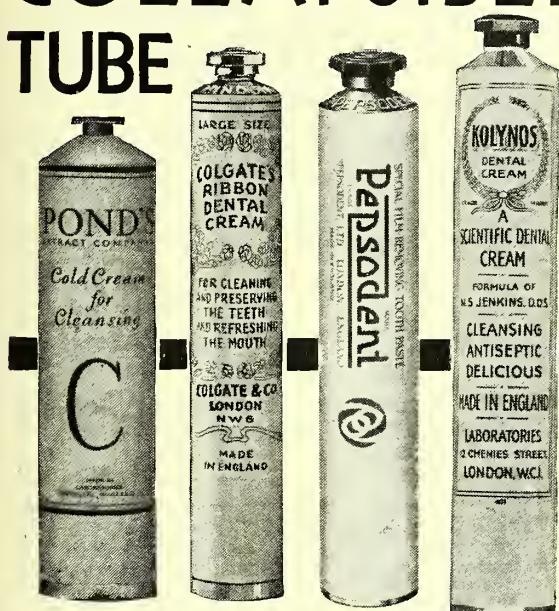
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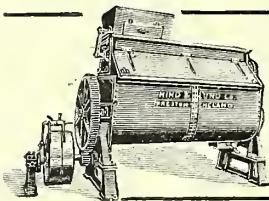
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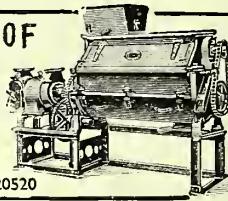
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T.G.S.

# THE CHEMIST AND DRUGGIST

A Weekly Journal of Pharmacy, the Drug, Chemical and Allied Trades

*The official organ of The Pharmaceutical Society of Ireland,  
The Pharmaceutical Society of Northern Ireland,  
The Chemists' and Druggists' Society of Ireland, and of  
other Chemists' Societies in Overseas Dominions*

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VOL. 123. NO. 2899

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## News of the Week

### Key Industry Exemptions

The Treasury have made an Order under Section 10 (5) of the Finance Act, 1926, exempting the following articles from liability to key industry duty as from August 26 until October 31, 1935:—

PHYSICAL LECTURE AND EXPERIMENTAL APPARATUS of the following descriptions:—

Glass observation portions of a fractional column, glass bubble caps, metal bubble caps, level control devices, being parts of apparatus to demonstrate fractional distillation.

### New British Standard for Cyanides

The new British Standard specification for cyanide (Classes A and B) is of primary interest to the electro-plater. The specification has been prepared by a technical committee representing the interests of manufacturers and users, and while it was drawn up primarily for the electro-plating industry it can be employed for any purpose except that of gold refining. Particular attention has been given to the method of packing and storing, and there are useful warnings as to the handling of this highly poisonous material. The appendix deals with the methods for the determination of various impurities. Copies of the specification (No. 622-1935) may be obtained from the British Standards Institution, Publications Department, 28 Victoria Street, London, S.W.1, price 2s. 2d. post free.

### Test Prescriptions and the Dangerous Drugs Acts

The Supplement to "The British Medical Journal" of August 24 contains the following paragraph:—"In connection with the present arrangements for the testing of drugs supplied by chemists under the National Health Insurance Acts, the

attention of the Committee [i.e., the Insurance Acts Committee of the British Medical Association] was drawn to the desirability of utilising prescriptions which contained drugs covered by the Regulations under the Dangerous Drugs Act[s]. The Committee felt that it was of equal, if not greater, importance that a medical practitioner should be satisfied that the 'dangerous' drugs which he prescribed were being properly dispensed. Representations were accordingly made to the Ministry of Health, and it is understood that the Home Office is now giving consideration to an amendment to the Dangerous Drugs Regulations, the effect of which would be to allow prescriptions issued for the purpose of a drug-testing scheme or for the purposes of the Food and Drugs (Adulteration) Act to contain drugs hitherto excluded from such prescriptions."

### Imperial Botanical Conference

The second Imperial Botanical Conference, which commenced at Burlington House, Piccadilly, London, W.1, on August 28, attracted members of botanical, agricultural and forestry departments from many parts of the Empire. The presidential address was given by Sir Arthur Hill, C.M.G., F.R.S., Director of the Royal Botanic Gardens, Kew, on the importance of pasture research. Other speakers dealt with the same subject, and also with the storage and transport of fruit, diseases of cacao and bananas, etc. Professor G. W. Scarth and Mr. H. J. Whyte, of McGill University, Canada, stressed the importance of phosphates and potash in increasing the yields of poor pastures.

### National Chamber of Trade

The autumn meeting of the council and conference of the National Chamber of Trade will take place at Cardiff on October 12-16 inclusive. The report of the board of management

will include reference to the following subjects: Itinerant trading; "irregular" and unfair trading in institutions, offices, factories, etc.; town planning and limitation of shops; Sunday trading; postal matters (especially with reference to the penny post); regulations relating to goods vehicles; local authorities' requirements and bulk purchases. Resolutions for the agenda should reach the secretary, 48 Bedford Square, London, W.C.1, not later than September 20.

### The British Association

This year's annual meeting of the British Association for the Advancement of Science will be held in Norwich, on September 4-11 inclusive. The presidential address of the conference will be given by Professor W. W. Watts, LL.D., Sc.D., F.R.S., on "Form, Drift and Rhythm of the Continents." In the section for Chemistry the presidential address will be given on September 5 by Professor W. N. Haworth, D.Sc., F.R.S., Director of Chemistry in the University of Birmingham, whose subject is: "The Molecular Structure of Carbohydrates." Nineteen papers will be read, the subjects including "The Function of Polysaccharides in Immunological Specificity"; "Optical Activity and Structure of Sugars"; "Some Aspects of Enzyme Action"; "Methods of Chemotherapeutic Research as Exemplified by the Anti-Malarial Drugs." In the Physics section, "Some Problems in Radioactivity"; "The Nuclear Photo-electric Effect"; "Noise"; "Lubrication"; and "The Meteorological Basis of Civilisation" will be the titles of some of the papers read. The Botany section will consider "The East Anglian Flora"; "Quantitative Evolution"; "The Need for a Permanent Organisation for Undertaking Periodic Botanical Surveys of Great Britain"; "Some Aspects of the Plant Virus Problem"; "Investigation on the Germination of Mould Spores"; "The Life History of *Dicranophora fulva*," etc. In the section for Physiology, papers will be read on "The Relationship of the Pituitary Gland to Carbohydrate Metabolism"; "The Relation of the Pituitary to the Kidney," etc. Among the outings arranged for the delegates is a visit to the Carrow Works of J. & J. Colman, Ltd.

### Developing and Printing Prices in 1936

At a recent meeting of representatives of the Photographic Dealers' Association, the Wholesale Photo Finishers' Association and Trade Finishers to consider the present and future conditions of the developing and printing trade, it was agreed that the existing scale of retail prices should continue throughout 1936. It was also reported that the tendency to cut prices and special offers had been considerably less during the current season.

### Air Raid Precautions

A memorandum entitled "Treatment of Casualties and Decontamination of Personnel," one of a series issued by the Home Office on air raid precautions (*C. & D.*, August 10, p. 168), has been published (price 4d.) by H.M. Stationery Office. The memorandum outlines schemes for county boroughs and rural areas in England and Wales, with adaptations for Scotland, but does not cover the Metropolitan Police area, which will be separately dealt with at a later date. First-aid parties composed of four trained men are proposed, twelve for every 100,000 population in urban areas.

As equipment, each member of the party on duty should carry a respirator, protective clothing, and a first-aid pouch containing:—Triangular bandage, 1-in. wrapped roller bandage, 2-in. wrapped roller bandage,  $\frac{1}{2}$ -oz. packet plain lint,  $\frac{1}{2}$ -oz. packet absorbent cotton-wool, pair scissors, six safety pins, three ampoules iodine tincture, 2-oz. bottle sal volatile, medicine glass, piece of strong cane.

Each party of four should also carry a stretcher and a surgical haversack containing:—Splints, splint straps for securing splints in lieu of bandages, triangular bandages, each in an envelope, first-aid dressings, roller bandages (assorted sizes), each wrapped in paper, cotton-wool, boric lint, spool adhesive plaster, scissors, St. John bottle iodine tincture, bottle sal volatile, dredger boric acid powder, medicine tumbler, St. John (or St. Andrew) tourniquet, safety and plain pins, bottle smelling salts.

### Hull

An outbreak of fire which occurred on August 27 at the pharmacy of Mr. S. Snowden, chemist and druggist, Anlaby Road, is believed to have been started by persons who broke

into the premises. The damage is stated not to be of an extensive nature.

The first annual golf meeting of the Hull Chemists' Association took place at Hornsea on August 15, when members competed for the Lofthouse cup given by Lofthouse & Saltmer, Ltd., manufacturing chemists, for the best net score over 18 holes. With the cup, which is to be held by the winner for one year, a replica was presented. Mr. E. Naylor and Mr. A. Surfleet, each with 76, tied for first place. To decide the winner, the first hole was replayed, when Mr. Surfleet was successful with four strokes to Mr. Naylor's five. Tea was served in the Hornsea club house, where the cup was presented to the Hull Association by Mr. A. G. Surfleet, in the absence of Mr. G. W. Harrison, senior director of Messrs. Lofthouse & Saltmer, who was unable to be present owing to illness. Mr. H. Smart (president) and Mr. Spilman responded on behalf of the Association. Mr. Smart presented the cup to Mr. Surfleet, the winner. Others present were Mrs. Page, Mrs. Twigg, Mrs. Metcalfe, Miss Bolton, and Mr. D. W. Robinson (secretary). The full scores were as follows:—

|                        |            |                     |             |
|------------------------|------------|---------------------|-------------|
| E. Naylor .. ..        | 100-24= 76 | F. C. Page .. ..    | 101-16= 85  |
| A. Surfleet .. ..      | 100-24= 76 | E. Hindle .. ..     | 110-24= 86  |
| J. Twigg .. ..         | 92-12= 80  | J. J. Spilman .. .. | 110-24= 86  |
| V. Iddon .. ..         | 97-16= 81  | J. R. Stewart .. .. | 101-14= 87  |
| H. Smart (pres.) .. .. | 107-24= 83 | H. Watson .. ..     | 139-24= 115 |

### Liverpool

An epidemic of minor eye troubles on Merseyside has brought business in eye-lotions to chemists in this area. Recently an abnormal number of customers have complained of sore throats, for the most part of the nature of a slight inflammation.

A statement made by Mr. J. J. Cleary, M.P. for the Wavertree Division, expressing the dissatisfaction of the British Association of Chemists with the recommendations of the Poisons Board has elicited the following reply from the private secretary to the Home Secretary:—"The present position is that the statutory period of forty days under the Rules Publication Act having expired, the Home Secretary will proceed carefully to consider the views of the British Association of Chemists, together with other representations that he has received in regard to the Rules. I am afraid that it is not possible to say more at the moment."

### London

The annual outing of the South-West London Chemists' Association and South-West Metropolitan Branch of the Pharmaceutical Society and the competition for the South-West Challenge Cups will be held at the sports ground of S. Maw, Son & Sons, Ltd., at New Barnet, on September 4. Besides the two series of competitions, there will be the usual races and games for children and the cricket match and tug-o'-war, together with dancing. Entry forms for the competitions are obtainable from the sports secretary, Mr. W. Atkinson, 301 Wandsworth Bridge Road, S.W.6.

### Miscellaneous

**ANALYST'S REPORT.**—The Leicestershire county analyst reports that of twelve samples of sweet spirit of nitre analysed one was found to be deficient to the extent of nearly 70 per cent. of the minimum quantity of ethyl nitrite indicated in the British Pharmacopoeia. It was bought at a small shop, and was supplied from a pound bottle which was only half full.

**FIRE.**—The premises of Glass Printers, Ltd., medical glass blowers, Frog Lane, Harrow, were involved in an outbreak of fire on August 21. The works had to be closed down for one day, and there was some little delay before getting back to normal production, but deliveries are not affected. We learn that after the fire two Winchester quarts of ozonic ether were salvaged intact, although the box in which they were packed was practically burnt away.

**INQUEST.**—At Rishton, on August 27, the district coroner held an inquiry concerning the death of Mr. James Brown, retired chemist and druggist, Henry Street. According to the evidence Mr. Brown had been dead a considerable time before his body was discovered. A medical witness said he understood that Mr. Brown had suffered from heart trouble, and this could have been the cause of death. The coroner recorded a verdict of "Death from natural causes."

OUTING.—Blackburn and District Chemists' Association had an enjoyable motor-coach trip to Chester recently. Mr. H. Carter (president) and Mr. Fred Law (secretary) accompanied the party. Places of historical interest, including the wall and the Cathedral, were visited. Sailing trips on the River Dee were also organised. On the return journey the members had their first experience of the new Mersey Tunnel, reaching Blackburn at about 10.30 p.m. The event was voted one of the most successful of recent years.

## Scottish Notes

### Brevities

There is a distinct autumn nip in the air and a demand for throat and chest remedies.

The demand for chrome films seems to indicate that the photographic season will continue longer than in former years.

A correspondent writes: "Only makers of india-rubber hot water bottles, the sales of whose products are confined to chemists, are likely to book many orders from pharmacists this year. Indeed, the tendency over the whole country is to support only those firms who cater for the pharmacist, so far as legitimate pharmaceutical goods are concerned."

## Irish Notes

### Brevities

During recent disturbances in Limerick plate-glass windows in the shop of Stewart & Widdess, chemists, were smashed.

The premises of Jackson & Co., manufacturing chemists, Amiens Street, Dublin, were broken into on August 25, and goods to the value of about £40 were stolen.

It is announced by the Ministry of Agriculture for Northern Ireland that their report on tests carried out since 1931 on M. Henri Spahlinger's vaccine for immunising cattle against tuberculosis will be released on October 1.

Mr. J. L. McKeown, L.P.S.I., Waterford, and Mr. C. McKeown, L.P.S.I., Dublin, have been bereaved by the death of their father, Mr. C. McKeown, which occurred this week. The late Mr. McKeown was one of the founders of the Irish Livestock Exporters' Association.

It is announced that the Minister for Industry and Commerce has, under the Irish Free State Apprenticeship Act, 1931, made Regulations with respect to the notice to be given by committees of intention to make rules. These regulations require committees to publish notice of their intention to make rules. Notices must be sent to employers in the designated trade, setting out the rules proposed to be made. Such notices are to be displayed.



THE TECHNICAL, CLERICAL AND MESSENGER STAFF OF J. CARROLL CULBERT, LTD., BELFAST (PHOTOGRAPHIC DEPARTMENT), STARTING ON THEIR ANNUAL EXCURSION TO THE ARDS PENINSULA, WOBURN SANDS AND DONAGHADEE

## Topical Reflections

By Xrayser

### I Have Been Very Interested

to read the "Impressions from England" contributed to a Danish paper by two Danish pharmacists who have recently paid us a visit (C. & D., August 24, p. 254). Their stay provided them with a fund of information regarding British pharmacy which has been set down with clearness and correctness, and they are to be congratulated on getting such an insight into our methods in so short a time. The best point they make, in my opinion, is when they state that Danish chemists are authorised dealers in *medicines*, while English chemists are authorised dealers in *poisons*; this is a statement that reveals what a wide difference there is between the practitioners of the two nations. I am intrigued with the accounts of the visits they paid to the single-handed pharmacies and how they were struck with the large proportion of "side-lines" to drugs and chemicals. Very piquant also is the comment upon the large stores where amid toys, books and other general articles they noticed a prescription counter, where dispensing was done—"the smallest form of chemist's shop one could possibly imagine." Their general conclusion is that British pharmacy, after all, compares very favourably with Danish and that the prices we get for dispensing are higher than theirs.

### What a Reflection

on modern pharmacy in its money-making aspect, and what a revelation of the value of toilet goods as side-lines, is the second article by "A Retired Chemist" entitled "How I Made My Money" (p. 244)! This is not written by a theorist, but by one who has actually done what he was persuaded to do in the first place, as he tells us, against his judgment. I suggest that this article ought to be pondered over, not only by the young pharmacist who is thinking of going into business, but by the established man who perhaps is

feeling the strain of competing bazaars and multiple shops in certain sections of his calling. One or two of the suggestions he makes my own experience confirms:—(1) The necessity for a separate counter, or even a separate room if possible, where women can feel perfectly at home and where there is not likely to be any interruption from a male assistant. (2) Goods of quality must be sold; the sole agency for the goods for the district is a valuable repeat sales-bringer. (3) The district need not necessarily be one where only good-class people live. A few days ago I heard of a pharmacist who bought a business in a poor-class suburban district. His first task was to get rid of about £40 worth of cheap toilet articles and to buy a fair stock of "quality" products. The venture has been a success; he does not fear the competition of the bazaars.

### The Article

on cod-liver oil (p. 246) is of considerable value to pharmacists at the present time, particularly in view of the duty which has to be paid on oils of foreign manufacture entering this country. It is of interest to note that the first recorded use of cod-liver oil being taken internally dates from 1782, at Manchester Infirmary. Before that time the oil had a considerable vogue for external application; recent correspondence in the medical press reveals the fact that it is again coming into fashion for application in various skin diseases. Cod-liver oil has a tremendous vogue to-day for feeding cattle and poultry; I suggest that the average pharmacist has no conception of the big quantities that are used by agriculturists. The table at the end of the article showing the vitamin strengths of Iceland, Norwegian and Newfoundland oils would have been even more valuable if British cod-liver oil had been included; the vitamin-A value of this would have compared favourably with that of Norwegian. The taste of the various oils, too, is important from the pharmacist's standpoint.

## Legal Reports

**Order Granted.**—In the Vacation Court, London, on August 28, Mr. Justice Hilbery had before him a motion by Phonotas Co., Ltd., to restrain Phonosan Co., Ltd., from carrying on business under that name. Mr. Andrew Johnson and Mrs. Emma Johnson, the promoters of the defendant company, were joined as respondents. Mr. Graham Mould, for the plaintiffs, said his clients were the pioneer company carrying on a certain type of business, consisting of the sale of disinfectants and undertaking the disinfecting of telephone apparatus. Mr. Andrew Johnson was their Manchester manager until recently, and when he left he promoted the defendant company and proposed to start in a precisely similar business to that of the plaintiffs. The defendants, added counsel, were now willing to give an undertaking in the terms of the notice of motion, and to treat the hearing of the motion as the trial of the action. Mr. Daniels, for the respondents, said his clients had acted unconsciously in the matter, and if the plaintiffs' objection had been made before the writ was issued they would have changed the name of the company. His lordship made the order agreed.

## New Companies and Company News

P.C. means Private Company and R.O. Registered Office

**GORDON PHARMACIES, LTD. (P.C.).**—Capital £1,500. Objects: to carry on the business of chemists and druggists, etc. R.O.: 246 Balham High Road, S.W.

**MEDICAL BOTANY UNION, LTD. (P.C.).**—Capital £1,000. Objects: To carry on the business of chemists, herbalists, etc. R.O.: 61-62 Chancery Lane, W.C.2.

**BRITISH LIVER CO., LTD. (P.C.).**—Capital £500. Objects: To carry on the business of manufacturers, wholesalers and distributors of medicinal and other preparations, etc. R.O.: 3A King Street, Egremont, Ches.

**EUREKA SCIENTIFIC CO., LTD. (P.C.).**—Capital £2,000. Objects: To carry on the business of chemical and scientific apparatus and chemical merchants, etc. Robt. G. W. Conner, 209 Henley Road, Ilford, director.

**D. A. A. PRODUCTS, LTD. (P.C.).**—Capital £1,200. Objects: To carry on the business of chemists, druggists, distillers of and dealers in alcohol, extracts, essences, essential oils, spices, herbs, perfumes, etc. Daniel Devon, 73 Priory Road, N.W.6, director.

**SPRING VALE COLOUR CO., LTD. (P.C.).**—Capital £2,000. Objects: To carry on the business of manufacturers of and dealers in colours, dyes, chemicals and chemical substances, essences, flavours and essential oils, etc. R.O.: Springfield Mill, Spring Vale, Darwen.

**PEAT TRUST, LTD. (P.C.).**—Capital £15,000. Objects: To carry on the business of manufacturers of and dealers in medical and pharmaceutical preparations and drugs. The first directors are to be appointed. Solicitors: Lovell, White and King, 5 Thavies Inn, E.C.1.

**C. & L. E. ATTENBOROUGH, LTD. (P.C.).**—Capital £20,000. Objects: To carry on the business of dental mechanics, manufacturers of and dealers in dental equipment, artificial teeth, dental brushes, etc., to acquire the business carried on at Nottingham as "C. & L. E. Attenborough."

**PLURUSAL, LTD. (P.C.).**—Capital £1,000. Objects: To acquire the trade mark or trade name "Plurusal," and to carry on the business of manufacturers of and dealers in medicines, medical preparations and drugs, chemists, etc. R.O.: 9 Sandland Street, Bedford Row, London, W.C.1.

**BRITISH SCIENTIFIC APPARATUS & CHEMICAL CO., LTD. (P.C.).**—Capital £100. Objects: To carry on the business of chemists and druggists, manufacturers of and dealers in salts, acids, alkalis, perfumes, scents, etc. R.O.: Sunnyside Works, Wootton, Canterbury, Kent.

**D. L. DAY, LTD. (P.C.).**—Capital £500. Objects: To acquire the business of a drug store and dealer in perfumery, toilet requisites and photographic materials, etc., carried on by D. L. Day at 148 North Street, Brighton.

**F. PERRIN, LTD. (P.C.).**—Capital £100. Objects: To acquire the business of an agent for the sale of patent medicines and chemical and other preparations and articles of all kinds now carried on by Miss Frances I. Perrin at 283 Wellington Road South, Stockport.

**BRITISH ANTI-GAS EQUIPMENTS, LTD. (P.C.).**—Capital £100. Objects: To acquire the business of a manufacturers' agent carried on by Bradley Bryan at 40 Fenwick Street, Liverpool, and to carry on the business of manufacturers of and dealers in gas masks, respirators, fittings and utensils, etc. R.O.: 226 India Buildings, Water Street, Liverpool, 2.

**PINCHIN, JOHNSON & CO., LTD.**—Interim dividend on the ordinary shares declared of 7½ per cent., payable September 17. Directors state sales for first six months of 1935 show a satisfactory increase.

## Private Arrangement

**Garfield O. Jones**, lately The Square, Treherne, chemist and druggist. A meeting of the creditors was held recently when a statement of affairs was submitted showing liabilities of £1,054 15s. 2d. all due to unsecured creditors. The bank were fully secured creditors for £435, and they held security of a like amount. The assets consisted of the balance of the proceeds of the sale of the business, £485; insurance policies, £29 6s.; and book debts, £35 8s., making total assets of £549 14s., from which £77 0s. 5d. had to be deducted for preferential claims, and £25 11s. 6d. for suing creditors costs and solicitors costs, leaving net assets of £447 2s. 1d., or a deficiency of £607 13s. 1d. Trading figures which had been prepared showed that during the year to November, 1934, the turnover was £3,210, with a net profit of £415. During the succeeding years the turnover was in the neighbourhood of £2,900 a year, with a profit of between £200 and £300 per annum. During the year to November, 1932, the turnover declined to £2,122, with a profit of £259, and in the following twelve months the profit was £248 on sales of £1,831. In the year to November, 1934, the turnover was £1,787 and the profit £275. The business was recently sold. It was decided that the matter should be dealt with under a deed of assignment in favour of Mr. A. E. Clutterbuck, accountant, of Cardiff, as trustee, with a committee of inspection.

## Meeting of Creditors

**Israel Saul Lyons**, lately trading at 12 Allenby Parade, Southall, Middlesex, chemist. The creditors were called together recently at Kimberley House, Holborn Viaduct, London, E.C. It was reported that the liabilities amounted to £1,793, of which £1,204 was due to the trade. There was also a contingent liability of £100, of which £25 was expected to rank. The assets consisted of cash in hand £235 and other items, making total assets of £514 (net £505). The claims of the fully secured creditors totalled £1,684, the security held being valued at £1,954. It was stated that the debtor qualified as a chemist in 1928 and in the following year commenced business on his own account, opening a shop in Manchester. He had no capital of his own, but borrowed £150 from a friend, and that loan had been repaid. The business was eventually sold by the debtor for £1,775, and the proceeds were used to pay off creditors' claims, leaving a small surplus. Six months later the debtor opened a shop at Stockport, but that proved an unprofitable venture and the business was sold for £700, which was the value of the stock and fixtures at the date of the sale. Only part of the creditors' claims were paid out of the proceeds. In February of this year the debtor opened the business at Allenby Parade. He had no liquid capital and obtained credit to stock the shop, also borrowing money, the majority of which was still owing. That business was sold for £770 and the debtor received the purchase price in varying amounts. In reply to questions, Mr. Parkin S. Booth stated that the debtor had told him that the turnover at the Southall business had been about £40 weekly, and that he had had to draw nearly £20 to cover expenses. The debtor, who was present at the meeting, intimated his willingness to file his own petition immediately.

## New Dublin Pharmacies

WITHIN the past few months several modern pharmacies have been opened in Dublin and district. Here, as elsewhere, the drab, monotonous shops are passing, and in their stead bright, artistic façades and interiors of pleasing colour have become the order. In no sphere of business has this change been more pronounced than in pharmacy.

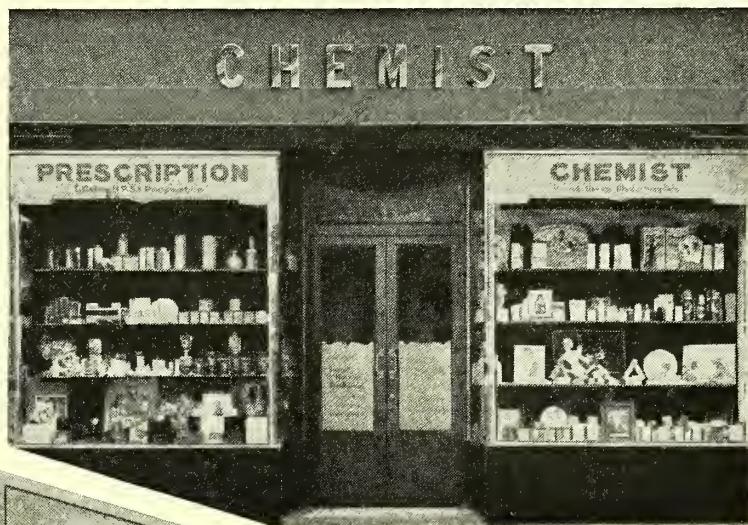
One of the most outstanding and distinctive of the new pharmacies is the establishment recently opened at Ballsbridge

are in staybrite steel. The sign is an exceedingly effective piece of work. The word "CHEMIST" is in green-enamelled staybrite steel on a white panel, with the proprietor's name in neat staybrite letters below. The window casings are also distinctive. They are backed by frameless sliding panels of cathedral glass. The interior layout and design are especially noteworthy, as well as being in keeping with the handsome front. For the first time in a Dublin pharmacy the traditional



Above: Clontarf Road branch pharmacy of Mr. H. P. Corrigan

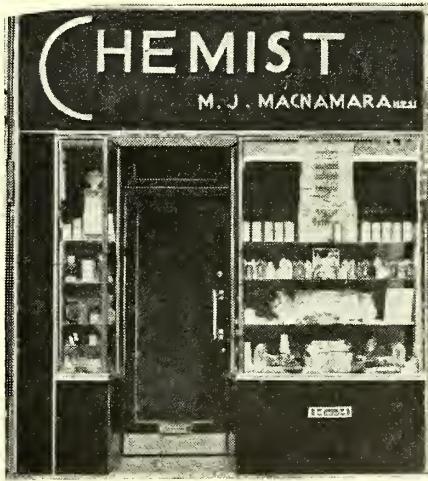
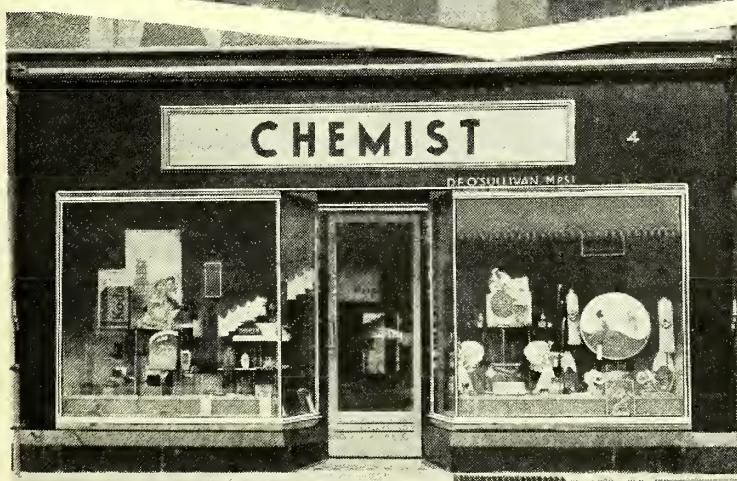
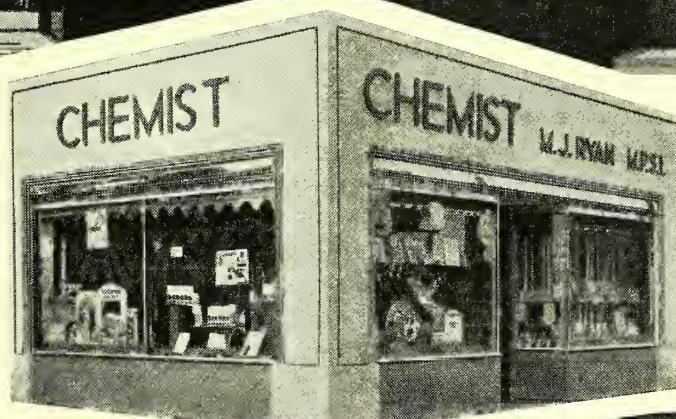
Below: Ballsbridge pharmacy of Mr. D. F. O'Sullivan



Above: Whitehall pharmacy of Miss E. Carey

Centre: Rialto pharmacy of Mr. M. J. Ryan

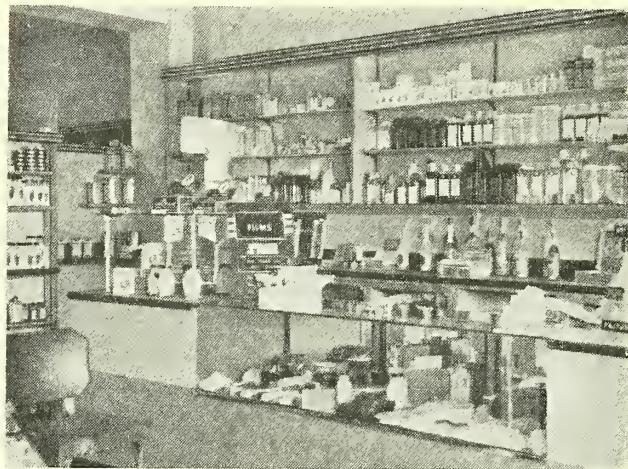
Below: Dun Laoghaire pharmacy of Mr. M. J. Macnamara



by Mr. D. F. O'Sullivan, M.P.S.I. Almost directly opposite to the premises of the Royal Dublin Society, where the famous Dublin Horse Show is held, it occupies a commanding position in Merrion Road. The entire façade is carried out in black opalite, with a base in rich black veined marble. The casings

dark mahogany and plate glass have been abandoned in favour of something more colourful and ornate. Jade green and cream, with touches of black, have been used in a delightfully pleasing scheme that while modern is not bizarre. Many visitors to this year's Dublin Horse Show have been eloquent in praise of this

interior. Two features are strikingly original and effective. One is the handsome green and cream counter, with its cleverly



Interior of Mr. O'Sullivan's pharmacy, Ballsbridge

designed display centre in plate glass, set in as a sort of well. The other is the unique dispensing screen, with its lettered

cathedral glass making a fine top-piece. Both the front and interior of this pharmacy are the work of O'Connor & Bailey, South William Street, Dublin. Further south, in Dun Laoghaire, Mr. M. J. Macnamara has opened a compact modern pharmacy at 116 Upper Georges Street. This is attracting much notice in the busiest thoroughfare of this thriving coastal township. The frontage is executed in staybrite steel casings and black "armour plate" with brilliantly polished finish. In nice contrast is the modernistic lettering in red. The interior, in mahogany and plate glass, is a clever piece of layout, utilising every inch of space to the best advantage. A. H. Bex, Ltd., South King Street, Dublin, are responsible for this work. In Dublin city, south side, Mr. M. J. Ryan has opened a corner site pharmacy in Rialto. The exterior is in white snowcrete with bold red sign lettering. The delicately shaded mottled tile base completes the scheme. The effect is exceedingly impressive, and receives extra emphasis from the fine position the house occupies. This is also the work of A. H. Bex, Ltd. On the fringe of the Gaelic speaking colony at Whitehall (North Dublin), Miss E. Carey has opened a pharmacy of substantial proportions. The frontage is finished in grey veined marble of quiet shade, with contrasting base of black marble. The casing and the sign are in staybrite steel, the interior fittings in mahogany and plate-glass. J. Rooney, Balbriggan, was the contractor. At Clontarf Road A. H. Bex, Ltd., have installed a new and attractive front for Mr. Hugh P. Corrigan's branch pharmacy facing the sea. The new frontage, while preserving the best features of the old, including the ornamental iron work top, has a commendable compactness. The black teak base supports staybrite window casings, which are crowned by a green fascia with red lettering.

## Insurance Dispensing News and Notes

Record of matters concerning Chemists' interests in the National Health Insurance Acts

### ENGLAND AND WALES

**Derby.**—The following chemists have been elected to serve on the Pharmaceutical Committee of Derby:—Mr. H. G. Pattison, Mr. J. Clayton Smith, Mr. J. S. Smith, Mr. S. Taylor, Mr. C. Daykin Turner, Mr. C. H. Watson, Mr. Cyril Weston and Mr. T. G. Bramley.

**Sheffield.**—The Pharmaceutical Committee has elected Mr. E. Preston *Chairman*, Mr. Gilbert *Vice-Chairman*, and Mr. H. Antcliffe *Secretary* (re-elected). Payments for the past month for N.H.I. dispensing amount to £2,670.

**Wales.**—The report for the year 1934 of the Welsh Prescription Pricing Committee, which covers Monmouthshire and sixteen committees in Wales, has recently been published. The number of scripts dispensed in the period covered by the report was 2,568,755, at an average cost per script of 8.20d. The average total annual cost per insured person remains at 31.91d.; a reduction of about 140,000 scripts from the previous year's figure is shown. Among the 235 items prescribed but not allowed as a charge on the Drug Fund were eyeshades (45), Thermogene (21), finger stalls (18), trusses (15), elastic knee-caps (11), foot-arch supports (8), Burney Yeo inhalers (4), and hypodermic syringes not for self-administration of insulin (8). For the first time special records covering three-monthly periods have been kept of splints, tampons, cod-liver oil, malt and oil, barbiturates, elastic and zinc paste, bandages and proprietaries ordered. In the period ended December 31, 1934, prescriptions for barbiturates numbered 4,428; for cod-liver oil and malt and oil, 12,435. The number of insured persons in Wales was 661,043, a decrease of over 11,000 compared with 1933. There were 9,200 fewer in the County of Glamorgan alone. Insulin was prescribed for 471 persons at a total cost of £2,799, against £2,914 in the previous year, when the same number of patients received insulin treatment. Six hundred persons received serum or vaccine treatment, thirty varieties being dispensed. There is a steady increase in the dispensing of liver extract preparations. In 1932 only 263 persons were supplied; in 1934 the number had risen to 416.

### Notes and Queries

The following are answers to some of the questions that may arise in connection with National Health Insurance dispensing

**SURCHARGES ON MEDICAL MEN.**—The Insurance Committee of the British Medical Association has been in communication with the Ministry of Health with regard to questions of surcharging practitioners. One case concerned the ordering of an elastic cotton stocking, not being an authorised article. The Committee took the view that the article ordered in this case might properly be regarded as a special elastic bandage, that the doctor's action had tended to reduce rather than increase the charge on the drug fund, and that therefore it would be unreasonable to surcharge him. The Ministry, in its reply, observed that in view of the special circumstances, the Insurance Committee had decided not to surcharge the practitioner.

**CASEIN (CASEIN GLYCEROPHOSPHATE).**—The question whether casein (casein glycerophosphate), which had been prescribed by a doctor, was a drug or medicine forming part of medical benefit was referred to a Panel Committee under Article 4 of the National Health Insurance (Amendment) Regulations, 1930. No mention of casein occurs in the British Pharmacopœia or in Cushing's "Textbook of Pharmacology." The amount of glycerophosphates in the preparation is so small in comparison with that of casein that the value of the preparation appears to lie in the casein. The doctor contended that casein glycerophosphate is an official B.P.C. preparation, and that he had found this substance especially useful in this particular case. A similar case was considered in which the doctor submitted that he thought he would be failing in his duty to the patient if he did not prescribe this substance, which gave the results which experience entitled him to expect, and which he did, in fact, obtain. He also referred to Lippincott's description of a medicine as "a substance or preparation used in alleviating or preventing disease by any known means." The Committee were unanimously of opinion that, in both cases, casein glycerophosphate was not a drug or medicine forming part of medical benefit.

# Government Report on Dangerous Drugs

THE British Government's latest annual report to the League of Nations on opium and other "dangerous" drugs, covering the year 1934, has been circulated in typescript. The scope of the report is limited to Great Britain, Northern Ireland, the Isle of Man and the Channel Islands. Once again, "addiction to narcotic drugs is not prevalent in the United Kingdom." During the year, a special branch of the Home Office, the "Drugs Branch," was created for the purpose of dealing with all matters relating to "dangerous" drugs. In the twelve months under review seventeen persons in charge of private dispensaries were licensed to be in possession of one or more of the drugs for supply, on doctors' prescriptions, to members of the dispensary. Five schools of pharmacy were licensed to be in possession of certain drugs for the purpose of instruction of students. Six persons were licensed to possess various drugs for analytical and research work, and two persons were licensed to be in possession of specimens of certain of the drugs. Nineteen persons were licensed to possess one or more of the drugs for the purpose of manufacturing proprietary medicines, and fifteen persons were licensed to possess certain drugs for the purpose of manufacturing medicines required in the treatment of animals. There were 121 wholesale druggists licensed to deal in one or more of the drugs, seventeen persons as merchants and fifteen persons as brokers in respect of one or more of the drugs. Five wholesale chemists were licensed to supply their own retail shops, and nine druggists' sundriesmen to handle drugs in sealed containers but not to break bulk. The following information is abstracted from the report and its appended tables:—

#### RAW OPIUM

Imports of raw opium amounted (omitting decimal fractions) to 53,422 lb. Exports totalled 34,640 lb., against 3,779 lb. in 1933.

#### MEDICINAL OPIUM

The total amount of medicinal opium manufactured was 7,468 lb. Imports amounted to 1 $\frac{1}{2}$  lb., while exports totalled 2,154 lb. (1,792 lb. in 1933).

#### MORPHINE

The gross amount of morphine and morphine salts manufactured during the year was 34,477 oz. Further, 12,651 oz. of morphine was used in the manufacture of diacetylmorphine; 24,519 oz. in the manufacture of codeine; 570 oz. in the manufacture of ethylmorphine; and 35 oz. in the manufacture of apomorphine. Imports of morphine and its salts and preparations (excluding crude morphine) totalled 672 oz.; exports amounted to 14,317 oz.

#### DIACETYLMORPHINE

The amounts manufactured during the year were:—Diacetylmorphine and salts of diacetylmorphine, 3,726 oz. Imports amounted to 66 oz. while exports totalled 2,099 oz. It is added that dihydro-oxycodeinone, dihydrocodeinone, benzoylmorphine, dihydromorphinone and esters of morphine other than diacetylmorphine are not manufactured in this country.

#### COCAINE

The amounts manufactured during the year were:—Cocaine and cocaine salts, 13,576 oz. The following figures are given for imports:—Coca leaves, 101,815 lb.; crude cocaine, 2,116 oz.; cocaine (salts and preparations), 269 oz. Exports of cocaine and its salts and preparations amounted to 5,997 oz.

#### INDIAN HEMP

Imports of Indian hemp totalled 2,097 lb., and of Indian hemp extract and tincture, 16 oz. Exports of Indian hemp amounted to 33 lb. (74 lb. in 1933); extract, 1,203 oz. (1,358 oz. in 1933); tincture, 1,835 oz. (1,734 oz. in 1933).

#### OTHER DRUGS

In respect of codeine the following figures are given:—Amount manufactured, 32,844 oz.; amount imported, 481 oz.; amount exported, 25,431 oz. The amount of ethylmorphine (dionine) manufactured was 1,945 oz.; amount imported, 128 oz.; amount exported, 1,049 oz.

#### Production, Manufacture and Consumption

The following data are abstracted from the table giving the statistics of production, manufacture, amounts purchased for Government purposes and consumption other than for Government purposes for the year 1934:—

#### RAW OPIUM

Quantity used in the manufacture of morphine (including the quantity of morphine converted into diacetylmorphine, benzoylmorphine and other esters of morphine, dihydromorphinone and substances not covered by the Convention), 28,713 lb. Quantity used for other purposes, such as the manufacture of medicinal opium and of preparations containing morphine, 7,468 lb.

Quantity purchased in the country for Government purposes, nil. Consumption, other than for Government purposes, 978 lb.

#### MEDICINAL OPIUM

Quantity purchased in the country for Government purposes, nil. Consumption, other than for Government purposes, 688 lb.

#### MORPHINE

Quantity of morphine manufactured, including quantities used for the manufacture of the substances mentioned below, 71,868 oz., and including 9,558 oz. manufactured from materials other than raw opium.

Quantity of morphine used in the manufacture of diacetylmorphine, 12,651 oz.

Quantity of morphine used in the manufacture of substances not covered by the Convention, such as codeine, ethylmorphine, apomorphine, etc., 25,124 oz.

Quantity of morphine, morphine salts and preparations containing morphine purchased in the country for Government purposes, 69 oz.

Consumption, other than for Government purposes, of morphine, morphine salts and preparations containing morphine, 22,918 oz. (In addition, 15,945 oz. was consumed in the form of preparations containing less than 0.2 per cent. of morphine which were made direct from raw opium, medicinal opium or morphine.)

#### DIACETYLMORPHINE

Quantity of diacetylmorphine manufactured, 3,726 oz.

Consumption, other than for Government purposes, of diacetylmorphine, its salts and preparations containing diacetylmorphine, 1,621 oz.

#### COCA LEAVES

Quantity used in the manufacture of cocaine, 139,802 lb. (In addition, 943 lb. was used in the manufacture direct from coca leaves of preparations containing cocaine.)

Consumption for other than Government purposes, including coca leaves consumed as such, and also as extracts and tinctures and other preparations containing more than 0.1 per cent. of cocaine, made direct from coca leaves, 967 lb. (The amount consumed in the form of preparations containing less than 0.1 per cent. of cocaine was nil.)

#### COCAINE

Quantity of cocaine manufactured, nil. Quantity in process of manufacture at the end of the year, 36,455 lb.

Quantity of cocaine, cocaine salts and preparations containing cocaine and made direct from cocaine purchased in the country for Government purposes, 121 oz.

Consumption, other than for Government purposes, of cocaine, cocaine salts and preparations containing cocaine and made direct from cocaine, 8,245 oz. (In addition, 190 oz. was consumed in the form of preparations containing less than 0.1 per cent. of cocaine.)

#### EXTRACT AND TINCTURE OF INDIAN HEMP

Consumption, other than for Government purposes, 14,771 oz., made up as follows:—13,615 oz. of extract and 1,156 oz. of tincture, of which 9,065 oz. of extract and 718 oz. of tincture were in the form of preparations.

## A Century Ago

**R**ELICS of the practice of pharmacy in former generations come to light from time to time in unexpected places; and thus it happened that the other day we received on loan, through the courtesy of a Manchester pharmacist, two items of information regarding two London chemists who were in business in the early part of the nineteenth century. The first is an order sent by post (franked) from Lord Lynedoch to Mr. William B. Hudson, 27 Haymarket (S.W.); it reads:—

Ld. Lynedoch begs that Mr. Hudson will send him (pack'd in a small box by the Coach) a quart bottle of best Tincture of Myrrh & a quart bottle of the same Eye Lotion, as the Pint Bottle that was lately sent to Wanvens Hotel, & wch his servant broke in bringing down to the Hoo—

Cosgrove priory  
Stoney Stratford 8 Decr.

23

also a large phial of Carbonate of Potash.

There was a chemist named J. (or T.) Hudson in Clare Market, W.C., as early as 1768, but we have not been able to ascertain whether he was of the same family. Of the identity

*Stoney Stratford Decr  
Eight 1823*   
*Mr Hudson  
Chemist Haymarket  
London*

of William B. Hudson, however, there is no doubt, as his name occurs frequently in Bell & Redwood's "Historical Sketch of the Progress of Pharmacy in Great Britain." On March 4, 1813, he took the chair at a meeting of London chemists and druggists held at the Freemasons' Tavern (now Freemasons' Hall), Great Queen Street, W.C., for the purpose of consider-

ing "an abstract" of a Bill promoted by "certain apothecaries," a forerunner of the Apothecaries' Act of 1815. He was a member of the committee elected to take steps for opposing the Bill, and presided at further meetings of chemists

*Mr. Hudson*

Prescription,  
from Edward Simkin,  
(late Selway)

Chemist to His Majesty,

2, New Cavendish Street,  
Portland Place.

and druggists held at the same place on March 22 and April 8 of the same year. On the latter date he was presented with a piece of plate in recognition of his services. Hudson was one of the conveners of a meeting held at the Crown and Anchor Tavern in the Strand, on February 15, 1841, in order to consider the Bill of Mr. Hawes; and at the historic gathering at the same place two months later, he was among those who enrolled themselves as members of the Pharmaceutical Society of Great Britain. We reproduce the address of Lord Lynedoch's order: the seal, in black wax, is still intact, and the motto "Tria juncta in Uno" is quite legible.

Thomas Graham, afterwards Lord Lynedoch (1750-1843), represented Perthshire in Parliament from 1794 to 1807. He had a distinguished Army career, was created a peer in 1814, and was promoted to the rank of general in 1821.

Edward Simkin, one of whose prescription-envelopes is shown, also took part in the stirring events of 1841: he was a member of the committee appointed at the meeting on February 15 "for the purpose of watching and opposing the progress of this [Hawes's] Bill," and, like Hudson, he was among the first members of the Pharmaceutical Society. His appointment as chemist to the King presumably ceased with the death of William IV in 1837.

## The Phantom Pharmaceutical Palace

By H. B. Hammond

**I**HAD just been chuckling over "An Artist's Dream," and had evidently lapsed into a post-prandial day-dream. I found myself in Brunswick Square, greatly changed, in the year 1945. In the centre was a neatly laid-out bed of very peculiar plants which, I was informed, yielded a new laxative drug evolved after much intensive culture and research in the Pharmacological Laboratories, and was the result of crossing and recrossing cascara, castor oil, croton oil, senna and gamboge. The name of this strange new growth was "Mulctem in the Till, Excelsior," and I was told it was a hardy annual; in the centre of the bed was a pool of pharmacists' tears.

Facing I saw a palatial building in precious stones and rare metals with "Pharmaceutical Society of Great Britain" in letters of diamonds. I found the plans of the dreaming artist had been modified somewhat, for over the central dome was a large elephant in white marble with golden tusks, whilst the pestles in the mortars at either end had been cunningly arranged as flares so that we had "nights of burning pestles." Between the pillars over the main porch, statues of the building committee had been introduced, each in the act of dropping a brick. The shops on the ground floor all bore neat notices "To Let: suitable for chemist, rent £1,000 per week."

Making for the main entrance, I was told I could not enter there, as that was reserved for councillors and Cabinet ministers; ordinary members must enter by the back door. On

passing this portal I noticed a huge commissionaire holding a baton of lignum vitae. Members of Council hobnobbed with multiple-store chairmen in disporting themselves in the pool, the water of which was purified by a special vaccine prepared in the Laboratories. Special shower baths of perfumed waters were provided for councillors' use after meetings, and these were in charge of a fully qualified pharmacist and kept under lock and key in the approved manner. Adjoining the Council chamber a cocktail bar had been erected with service hatch to the chamber, and a refrigerator had been installed where councillors could retire after a heated argument. Descending by the underground passage to Whitehall a special chamber was found, in charge of a tame nit-wit, where numerous wild cats for introduction into important schemes were kept, and also convenient whispering corners for councillors to arrange plans before Council meetings.

Ascending to the first floor, on turning into the corridor the door of the Statutory Committee's room opened, and there emerged, in charge of six policemen with drawn batons, a pharmacist manacled with plaited red tape. I was informed he had been found guilty of keeping chamomile flowers (Section 1935) near prepared chalk (subsection 20-0055), and had been fined and censured. At this juncture I was awakened from my reverie by a lady falling over the doormat to inquire when the next bus left for Blanktown.

# Questions Asked by Amateur Photographers

HERE is every indication of a considerable increase in the number of amateur photographers anxious to continue their hobby throughout the winter months and to try many of the processes which come under the heading of "Home" photography. Chemists who intend to encourage this interest will be expected to answer many questions. It is surprising what an amateur really can ask, since there are few who will take much trouble to experiment for the purpose of getting practical experience, the majority much prefer to write to the manufacturer or call on the dealer and put the question to him. Amateur photography, like every other hobby, has its enthusiasts, who, either by asking or doing, are always wanting to discover something, and if they find a dealer who can help them they are not slow in appreciation. It is to assist chemists in this connection that the following questions and answers are presented:—

What is a stop bath and how is it prepared?—This is a most useful bath and one that cannot be too strongly recommended for amateurs who are making their own prints. It is made by dissolving one ounce of potassium metabisulphite in a pint of water and is used between the development and fixing of prints. If the print is lifted out of the developer and immersed immediately into the stop bath the action of the developer is stopped at once and stains prevented. The prints only require about three minutes' immersion and are then transferred to the fixing solution.

What is factorial development?—Certain developers are known to be quick in their action while others are slow, and this variation has influenced research workers to produce a table of comparative values of developers. These values are known as the development factors. When a plate or film is placed in the developing solution it is carefully watched for the first appearance of the image and a record taken of the time, this time is then multiplied by the factor number to ascertain the time required for complete development; for example a film is placed in a solution of Azol and the image first appears in 18 seconds, this time multiplied by the factor for Azol, 30, gives the exact time for correctly developing the film.  $18 \times 30 = 540$  seconds = 9 minutes.

Can you give me an amidol formula which, when made, will keep in good condition for some time?—Amidol, although it is a most useful developer, will not, unfortunately, keep in solution. The following is a convenient plan that is adopted in many professional darkrooms. Dissolve

|                          |     |     |        |
|--------------------------|-----|-----|--------|
| Sodium sulphite cryst.   | ... | ... | 2 oz.  |
| Potassium metabisulphite | ... | ... | ½ oz.  |
| Water to                 | ... | ... | 10 oz. |

Use fairly hot water for this and if it is intended to retain the solution for a long time it is advisable to boil the mixture and allow it to cool before bottling it.

For use take:

|                   |     |     |     |              |
|-------------------|-----|-----|-----|--------------|
| Amidol            | ... | ... | ... | 20 to 30 gr. |
| Stock solution    | ... | ... | ... | 2 oz.        |
| Potassium bromide | ... | ... | ... | 5 gr.        |
| Water to          | ... | ... | ... | 10 oz.       |

The larger quantity of amidol is intended for gaslight papers.

How can amidol stains be removed from fingers and dishes?—A moderately strong solution of potassium permanganate will move most of the staining if it is not old-standing. If it does not disappear place the fingers or apparatus in a solution of potassium metabisulphite 1 oz., water 1 pint, then wash in the ordinary way.

What is the reason for small blue spots on bromide prints, some with comet-like tails?—In all probability these are caused through small particles of iron in the water. If a flannel bag is placed over the tap and the water filtered through this the trouble is not likely to recur. The bag should be renewed from time to time.

Some films were left in the uranium intensifying bath too long and are too deeply stained to print. How can the colour be reduced or removed?—First soak them for a few minutes

in clean water, then immerse in a 5 per cent. solution of sodium carbonate. This will remove the stain, and before re-intensifying soak them in a 2 per cent. solution of acetic acid.

What causes thin well-defined lines on films?—Sometimes these are known as tram lines, because they are so regular and parallel. The trouble arises through winding the film with the camera closed, thereby causing the surface of the film to be scratched by perhaps a small thread of the bellows or other part of the interior of the camera. The winding should always be done while the camera is still open or extended.

What is the cause of brown stains on gaslight prints?—There are three principal causes. Under-exposure and forced or prolonged development; lifting the print out of the developer to examine it and keeping it exposed too long to the air; the use of a fixing bath that is exhausted.

The corners of my negatives do not print as clearly as the centre?—This rather suggests the trouble is due to the lens. An examination of it might show that it is slightly loose through someone tampering with it; or possibly it is an inexpensive lens and has not sufficient covering power for the size film being used; there may be a slight error of curvature in the making; or it may be that the trouble is only noticeable with close-ups and when using the largest aperture. If the cause cannot be traced to the lens then it may be due to an irregularity at the back whereby the film is not held taut, so causing it to bulge slightly.

What is the best printing paper to use for a print that is to be sent to the Press for reproduction?—If there is a lot of small detail print on glossy bromide paper. If, however, the subject is "bold" or very contrasty almost any paper will do, provided the print is clean and without stain.

How can a print be produced quickly for Press work?—One method is, after developing and fixing the negative and washing it in running water for ten minutes, to soak it in methylated spirits for five or six minutes, it will then dry in a very short time and the print can be made and dried in the same manner. If only a few minutes can be spared then it is best to print from the wet negative, as follows: Soak the piece of bromide paper in clean water, next place it in contact with the negative and press it down with a layer or two of blotting paper between the bromide and the back of the printing frame; print in the ordinary way and, after developing, fixing and rinsing, press the print as dry as possible with blotting paper or clean rag. Finally dip it in methylated or finish with slight heat.

With some of the circular types of developing tanks uneven markings may occur, can these be prevented?—A little extra care in the inserting of the film and general manipulation of the tank will reduce the possibility of these occurring; try filling the tank with water after the film has been placed in it, allow the film to soak for a couple of minutes, then pour off the water and fill up with the developer. In most cases this will overcome the trouble.

Some of the very fast films have a slight colour staining when they are developed and fixed. This is not altogether removed during washing. Is it possible to remove it?—This will usually clear if an acid fixing bath is employed. Should this not be successful try adding a little ammonia to the washing water.

I recently made some reducing solution (Howard-Farmer's) which acted quite well, but when I tried some more of the solution some time after it would not work. Where have I gone wrong?—Your experience rather suggests that you made a "one-solution" of the formula. Howard-Farmer must be kept as two solutions. For use take a few ounces of the hypo solution and add just sufficient of the ferricyanide solution to change the mixture to a pale yellow and use it immediately; it is a mistake to attempt to use this reducer too strong, by keeping it to a pale yellow it is under better control and its action can be more readily stopped.

Some time ago I read about a solution that should be kept in every darkroom for use by operators as a preventive of metol poisoning. Can you give the formula?—The bath referred to is made by simply adding 20 drops of hydrochloric acid to a pint of water; the fingers should be immersed in this before, during and after developing.

## Trade Notes

RASPBERRY VINEGAR made from this season's fruit is being offered by J. C. Arnfield & Sons, Ltd., Gadsby Works, Stockport.

COLLOSEAL CAPPING DEVICE.—British



Colloids, Ltd., The Crookes Laboratories, Park Royal, London, N.W.10, are employing a new capping device for bottles containing Collosol aqueous solutions. The Colloseal, as it is called, is claimed to incorporate all the advantages of the old-fashioned stopper and the modern moulded cap, without the disadvantages of either. The design will be appreciated from the illustrations herewith.

STERNOL, LTD., Royal London House, Finsbury Square, London, E.2, have sent us one of their revised booklets on "First-aid for the Car." A copy of this useful publication will be posted to any of our readers who write for it.

LISTERINE.—New wholesale and retail prices for Listerine in the Irish Free State are announced elsewhere in this issue by the Lambert Pharmacal Co. The distributors of this antiseptic are May, Roberts (Ireland), Ltd., Grand Canal Quay, Dublin; C.6.

NEW PRICE LIST.—John Thompson (Wholesale Druggists 1921), Ltd., 27 Duke Street, Liverpool, 1, have issued a new edition of their price list of proprietary medicines, druggists' sundries, packed drugs and shop fittings. A copy of the catalogue is obtainable on application.

RUBBER BULBS.—David Moseley & Sons, Ltd., Chapel Field Works, Ardwick, Manchester, 12, have sent us a copy of their latest catalogue of rubber bulbs for syringes, sprays and so forth. A copy of this list, and those relating to the surgical goods which the company manufacture, will be sent on request.

SENNA.—As a result of their advertisement on the front cover of the *C. & D.*, August 24, John Ronaldson & Co., 15 Seething Lane, London, E.C.3, inform us that they have had a number of inquiries for broken bulk quantities of senna. Messrs. Ronaldson only offer sennas in original packages as imported, so that correspondence regarding smaller quantities should be addressed to the wholesale houses.

SILENT SALESMEN.—Johnson & Sons Manufacturing Chemists, Ltd., Hendon Way, Hendon, London, N.W.4, have sent us a set of their silent sales-cartons which they are. They have been introduced in order to show simple and inexpensive can be.



AVA, LTD., 9 Park Hill, London, S.W.4, ask us to remind chemists that the bonus offer in connection with their soapless shampoo powders expires on September 7.

HOWARDS' ASPIRIN TABLETS.—Howards & Sons, Ltd., Ilford, have decided to make their bonus offer for aspirin tablets one month later than usual, i.e., during October and November, as it is considered that this period will suit chemists better.

NORMO-GASTRINE TABLETS.—Burgoyne, Burbidges & Co., Ltd., East Ham, London, E.6, are, in future, packing ten Normo-gastrine tablets in a cellophane tube, five of which will be enclosed in a carton. This alteration is solely for ensuring safe transit of the tablets, which are somewhat friable, and for the benefit of persons who wish to carry about with them a day's supply. The total number of tablets in the carton and the price is unaltered.

## Trade-Mark Applications

The figures in parentheses refer to the classes in which the marks are grouped. A list of classes and particulars as to registration are given in "The Chemist and Druggist Diary," 1935, p. 323.

(From "The Trade Marks Journal," August 7, 1935.)

- "SILVIFIX" ; for perfumes, hair preparations and dentrifrices, excluding soap (48). By Drugs, Ltd., 145 Sydney Road, Muswell Hill, London, N.10. 560,278.
- "TUBASENS" ; for perfumes (48). By A. B. Curtis, 6 Ludgate Circus Buildings, Ludgate Circus, London, E.C.4. 560,704.
- "BAIMAN" ; for perfumery, etc. (48). By R. Tennant, 59 Marlborough Avenue, Broomhill, Glasgow, W.1. 560,734.
- "THURIDIN" ; for chemicals (2). By British Dyestuffs Corporation, Ltd., Millbank, S.W.1, and The British Drug Houses, Ltd., 16 to 32 Graham Street, N.1. 558,699. (Associated.) [Corrected note.]

### APPLICATION AMENDMENT

The application for "ECZEDERM" in Class 3, No. 556,621, by R. Daniel & Son, Ltd., has been amended to one for registration in Part B of the Register.

(From "The Trade Marks Journal," August 14, 1935.)

- "APPRETAN" ; for all goods (1). By I.G. Farbenindustrie A.G., Grünburgplatz, Frankfurt a/Main, Germany. 560,753.
- "ROGUS" ; for insecticides (2). By Rogus, 23A Queen Street, Mayfair, W.1. 560,212.
- "FADEX" ; for medicated veterinary medicines and dressings (2). By Fadex, 41 Brighton Road, Coulsdon, Surrey. 561,213.
- "FLIT POWDER" on label design in red, yellow, black and white; for chemical substances in powdered form for agricultural, horticultural, veterinary and sanitary purposes (2). By Stanco Inc., 2 Park Avenue, New York, U.S.A. 556,647. (Associated.)
- "SERMALIN 244" (244 disclaimed) ; for chemical preparations for destroying rats, mice, blackbeetles and cockroaches (2). By H. L. B. Toobe (Sermalin), Ltd., 89 Queen's Road, Finsbury Park, N.4. 559,822.
- "CERICLOR" ; for chemical substances for agricultural, horticultural, veterinary and sanitary purposes, excluding soap (2). By Imperial Chemical Industries, Ltd., Millbank, London, S.W.1. 560,443. (Associated.)
- "LOKDINE" ; for all goods, excluding soap (2). By Holland, Sidebotham & Co., South Street, Openshaw, Manchester, 11. 553,009.
- "VISTRASAL" ; for medicated preparations for treatment of ulceration of the stomach (3). By Emma Sharples, 378 Central Drive, Blackpool. 558,776.
- "STOVOQUINE" ; for medicated preparations of quinine (3). By Société des Usines Chimiques Rhône-Poulenc, S.A., 21 rue Jean Goujon, Paris (VIIIe), France. 551,135.
- "KOROMEX" ; for prophylactic medicines (3). By Holland Rantos Co., Inc., 37 East 18th Street, New York, U.S.A. 555,111.
- "CASTORETS" Contain no Castor Oil ; for laxative medicine (3). By Carter & Sons (Sheffield), Ltd., Attercliffe Road, Sheffield. B 556,516.
- "RUMARI" ; for medicine for treatment of stomachic complaints (3). By J. C. D. Bustard, Appleby Lodge Hotel, Wilmslow Road, Rusholme, Manchester. 560,087.
- "TUMS TUMS" on descriptive label incorporating name and address of applicants ; for medicines for indigestion and stomach acidity (3). By The A. H. Lewis Medicine Co., Corner of 4th and Spruce Streets, St. Louis, Missouri, U.S.A. B 559,061.
- "LA TOJA" ; for medicated mineral waters and lees (3). By S. A. "La Toja," Calle Michelena No. 30, Pontevedra, Spain. 559,137. (Associated.)

## Births

Notices for insertion in this column must be properly authenticated.

JONES.—At 8 Ashfield Road, Morley, on August 28, the wife of Frank A. A. Jones, M.P.S., of a son.

## Marriages

CORFIELD—PAYNE.—At Norton Parish Church, Stoke-on-Trent, on August 22, John H. Corfield, chemist and druggist, Leek, to Mary A. Payne.

HOYLE—BURKE.—At the Baptist Church, Barnoldswick, on August 14, William Hoyle, chemist and druggist, to Annie Burke.

LAKE—RILEY.—At Maesteg, recently, Russell McRae Lake, chemist and druggist, to L. Riley.

LEE—BLAMIRE.—At Centenary Church, Denby Dale, on August 10, Kenneth Henry Lee, chemist and druggist, Rastrick, Brighouse, to Elsie Blamires.

ROBERTS—MORRIS.—At the Presbyterian Church, Whitehaven, on August 5, Arthur Wynn Roberts, chemist and druggist, to S. M. Morris.

RUTHERFORD—HUGHES.—On August 15, Lionel Rutherford, chemist and druggist, Berwick-on-Tweed, to Marian Stella Hughes.

## Deaths

ALLMAN.—At West Ealing, on August 25, Mr. John Dowling Allman, M.P.S., a director of C. J. Hewlett & Son, Ltd., manufacturing chemists, 35 to 42 Charlotte Street, London, E.C.2, aged ninety. Mr. Allman was a pupil of Dr. John Eagan at the Apothecaries Hall, Tralee, and afterwards assistant with W. & H. Goulding, Cork. He passed the Modified examination in 1868, and was later assistant to Page & Tibbs, Blackfriars Road, S.E.1, and senior assistant to the late Mr. Barnard S. Proctor, Newcastle-upon-Tyne. In 1870 he joined Messrs. C. J. Hewlett & Son; for fifty-four years, until his retirement in 1924, he was their senior representative and became widely known to more than one generation of medical men and pharmacists. His experience and training, as well as a considerable knowledge of therapeutics, was of real use to those upon whom he called and formed a strong link between the house of Hewlett and its customers. He attended the last general meeting of the company in March. The funeral service took place at SS. Peter and Paul, Northfields, Ealing, on August 29, and was attended by the directors of C. J. Hewlett & Son, Ltd., and several members of the staff.

BICKLE.—At Bulawayo, Southern Rhodesia, on June 28, Mr. William John Bickle, chemist and druggist, late resident director of Lennon, Ltd. Mr. Bickle was born in Devonshire in 1872. He went to Bulawayo in 1897, and served on the Town Council from 1917 to 1928, when he retired on account of ill health. Mr. Bickle held office as president of the local Chamber of Commerce, of the Associated Chambers of Commerce, and of the Pharmaceutical Society of Southern Rhodesia.

BROWN.—At 49 Henry Street, Rishton, recently, Mr. James Brown, retired chemist and druggist, aged seventy-eight.

GROUND.—At Topsham, Devon, on August 24, Mr. Thomas Ground, chemist and druggist, formerly with Southall Brothers & Barclay, Ltd., Birmingham, aged seventy-eight.

NEWTON.—At Lyndhurst, Eastgate, Hornsea, on August 22, Mr. George Robert Newton, dentist, chemist and druggist. Mr. Newton, who qualified in 1878, was for a time in business at Skegness. He went to Hull in 1885, and until he retired last October carried on business at 45 Witham, where he has been succeeded by Mr. H. Bays, chemist and druggist. The funeral service at the Parish Church was attended by a large congregation, among whom were Mr. A. G. Surfleet (representing Lofthouse & Saltmer, Ltd., Hull) and Mr. H. Bays.

PHILLIPS.—At Gillingham, Kent, on August 19, Mr. Alfred Penhorwood Phillips, chemist and druggist, aged twenty-two.

ROBINSON.—At 846 Beverley Road, Hull, recently, Mr. John Robinson, chemist and druggist. Mr. Robinson was formerly in business at Beverley and Scarborough, and was registered as in business prior to August 1, 1868.

WILLIAMS.—At Ilfracombe, on August 17, suddenly, while on holiday, Mary Anne, wife of Mr. J. P. Williams (Cupal, Ltd.), 43 Costleton Avenue, Wembley.

## Personalities

MR. E. A. ONYON, chemist and druggist, mayor of Eye, has been elected an alderman.

MR. JOHN AUSTEN, Ph.C., Sheffield, recently gave a talk before the local Rotary Club on "Iceland—Yesterday and To-day."

MR. E. R. HODGSON TODD, son of Mr. E. H. Todd, chemist and druggist, Burslem, Stoke-on-Trent, has recently passed his intermediate examination for the M.B., Ch.B. degrees.

NOTICE is given in "The London Gazette" that Eric Albert Freywirth, 62 Queen Anne Street, London, physician and surgeon, has assumed the name of Eric Albert Frayworth by deed poll.

MR. C. R. HANCOCK, who has just passed the Chemist and Druggist Qualifying examination, after a course of training at the Leicester College of Technology Department of Pharmacy, has been awarded a bronze medal and £1 worth of books under the Sir Jonathan North endowment scheme for an investigation into the "limit of readily carbonisable impurities in glycerin." Mr. Hancock was educated at Newport Municipal Secondary School, and was apprenticed with Boots, Ltd., then proceeding to the Leicester College of Technology for his course for the Qualifying examination. During the past session he has also gained the first prize of £2 2s. in the Chemist and Druggist course and certificates of honour in pharmaceutical chemistry and dispensing.



MR. C. R. HANCOCK

NOTICE is given in "The London Gazette" that Julius Cato Vredenburg-Inglesby, 4 Queen's Gate Terrace, Kensington, London, director of The British Cyanides Co., Ltd., has assumed the surname of Inglesby in addition to the surname of Vredenburg by deed poll.

MR. JAMES SAUNDERS, who, at the age of ninety, is on a visit to Nottingham after an absence of seventy years, served his apprenticeship to his father in Denman Street. Later he went to Australia and for a long period was in business at Roma, Queensland. Mr. Saunders finds Nottingham greatly changed and many of the landmarks removed, including the shop where he used to roll pills.

## Business Changes

BOOTS, LTD., are opening a branch at Troon, Ayrshire.

RICHARD THOMAS (CHEMISTS), LTD., Kenfig Hill, Glamorganshire, have opened a new branch at premises acquired by them and recently occupied by Mr. H. M. Jenkins Pyle.

Telegrams: "Atolene Sedist, London." TRADE MARK ESTD 1798

Telephone: Bemmonasey 1141

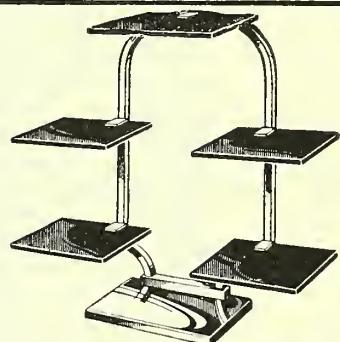
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All users of the C. & D. Retail Dispensing Price List require a copy of this Formulary. It brings together the formulas for unofficial preparations, the prices of which are quoted in the Price List. It is a choice collection of good formulas for articles in everyday request by the public. Price 2s. 6d. post free.

## PUBLISHED BY THE CHEMIST AND DRUGGIST

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## Information Department

### INFORMATION WANTED

Postal or telephone information with respect to makers or first-hand suppliers of the undermentioned articles will be appreciated.

|                               |                             |
|-------------------------------|-----------------------------|
| B/28. Clark's elastic bandage | W/24. Heather eye cosmetics |
| B/21. Crexina tablets         | M/16. Kola coffee essence   |
| M/21. Dinky wave dryer        | P/24. Laureline (for dogs)  |
| A/28. Eye-mo eye drops        | W/22. New Era solid rubber  |
| R/20. Frigisan                | stoppers for vacuum flasks  |
| E/28. Haematox                |                             |

# THE CHEMIST AND DRUGGIST

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## Courses in Shopkeeping

A DUBLIN technical school has recently introduced the subject of "retail practice" into its curriculum. Instruction will be confined, in the first place, to the drapery and grocery trades, but the possibility of extension to other trades is not excluded. Students are to "receive a good grounding from men who have a practical knowledge of their subject." The idea, of course, is not new: there are numerous schools of salesmanship in Great Britain. In eleven out of twenty-three London County Council commercial institutes the subject is associated with advertising and various commercial subjects in an evening "Advertising and Salesmanship" course. There is also under the L.C.C. a "School of Retail Distribution," where day and evening courses are given in merchandise, display, colour and design and the principles of retail distribution. The subject is catered for, in some form or other, by various provincial education authorities besides; and business knowledge is required in the examination for the Fairchild scholarship and prizes. Nevertheless, few would claim that the average standard of service in shops is as high and well-informed as it might become. One encounters assistants who have no conception of the essentials of selling, quite apart from questions of specialised trade and legal information. One encounters others who seem to be content with the parrot-like repetition of phrases gleaned from text-books.

In the Irish Free State the subject of "retail practice" has been introduced by educational authorities—a significant fact. On a broad view, what is needed is a recognition that every young person in retail business has something to learn about the subject as such, quite apart from what he needs to know of the technicalities of his own trade. A shop assistant is not following an academic career and does not require a university education. That is not to say, however, that he is in an occupation that can be left to the immature or untrained if the wheels of trade are to turn smoothly. The chemist is not an ordinary shopkeeper: yet, in so far as he is a shopkeeper, he needs instruction in shopkeeping, a fact which has long been realised in Canada and the United States. The prospectus of one university-affiliated pharmacy school across the Atlantic contains the following paragraph, which may be regarded as typical:—

### THE PRACTICE OF PHARMACY

Under this heading will be given a series of lectures to enable the student to apply well known and approved principles to the store. The modern view is that pharmacy cannot be isolated from the realm of business. It is the desire of the college that its graduates shall conduct business on a high plane; that his store be made an important and respected place in the community, and with this end in view these lectures are given. They will unfold the sound principles of his relationship with the physician, store management, the training of the apprentice and other factors which will help to make the pharmacist's store a place of educational importance.

Is it not time this point of view gained ground in this country? It may even be that the pharmacist, as a direct result of his professional education, requires instruction in retailing and selling even more than the grocer, the draper or the furnisher.

## At a Glance

DURING the three years that the Import Duties Act, 1932, has been in operation, the Treasury, on the recommendation of the Advisory Committee, have month by month issued a large number of Orders, in some instances authorising the free import of a wide range of articles and commodities, and, in others, imposing a duty additional to the general *ad valorem* rate of 10 per cent. A fair proportion of these Orders related to articles of interest to one or other of the many branches of what is known as the chemical trade. The position has become even more complicated by the issue of various Orders of a similar character under the Ottawa Agreements Act. For the convenience of the trade we have compiled and publish on p. 279 two alphabetical lists—one of products connected with the trade which are at present on the Free List, and the other of similar products on which additional duties have been imposed. While these are in no way official lists, they will, we believe, enable the trade to ascertain at a glance the current position on the question of liability to import duty.

## Pharmacy Laws in the United States

RECENT issues of "The Journal of the American Medical Association" (Vol. 104, Nos. 3 and 5: Vol. 105, No. 5) contain summaries of legal decisions affecting pharmacy. The most interesting of these, perhaps, is one in which the manager of a pharmacy appealed against a conviction for violating Section 13 of the California Pharmacy Practice Act by allowing persons other than registered pharmacists or assistant pharmacists to sell hydrogen peroxide. The first argument was that under the section cited it is the proprietor, not the manager, of a pharmacy who is responsible. The higher Court, however, pointed out that Section 12 of the same Act prohibits any person from permitting the sale of drugs and medicines "in his or her store or pharmacy" except by the classes of persons mentioned; and the Court held that the words "his or her" do not necessarily denote ownership. To limit this liability to proprietors would tend to defeat the purpose of the Section. The defendant went on to argue that hydrogen peroxide is not a drug or medicine within the meaning of the Act. The Court, however, was satisfied that the words "drug or medicine" are broad enough to include this substance. Further, Section 16 of the Act provides that in rural districts unregistered persons may sell "simple household remedies and drugs," among which is listed hydrogen peroxide: there is thus an implication that what is in these circumstances excepted is otherwise within the purview of the Act.

In other cases in California the defendants were charged with running "pharmacies, stores or shops" where drugs were sold by retail without having registered pharmacists in charge. They were acquitted, on appeal, on the ground that there was no proof of their having used any of the words "pharmacist," "pharmaceutical chemist," "apothecary," "druggist," "pharmacy," "drug store" or "drugs" on the store or in it. In two other cases the defendants (apparently not the same defendants) were convicted of selling aspirin and citrate of magnesia without being registered. On appeal they unsuccessfully argued that testimony to these substances being drugs or medicines should not have been allowed, and that the Act does not apply to "registered, trade marked or copyrighted proprietary medicine." Again, a pharmacist who had been granted a licence to practise in Louisiana removed to Mississippi and was there licensed as an assistant. Under an Act of 1932 the Mississippi State Board of Pharmacy must license as a pharmacist any person of good moral character who has been licensed to practise in another State prior to December 31,

1927. The applicant fulfilled these conditions, but the lower Court declined to order the Board to issue the licence at his request, and he had to apply to the Supreme Court before he could obtain it. The Board's plea was that it had only made a superficial examination into the applicant's character when granting him an assistant's licence.

In the last of the cases noted, a physician prescribed a preparation containing lead acetate for a woman who had a skin irritation. On taking her prescription to her pharmacist for a second supply, she was advised by him to use no more of the application and to apply instead a preparation of his own manufacture containing, *inter alia*, sulphur and oil of wintergreen. On following his suggestion she found that the inflamed skin "became blacker and blacker." After taking further medical advice she sued the pharmacist. The jury returned a verdict

for the plaintiff: the defendant moved for a new trial, on the ground that his demurrer to the plaintiff's evidence should have been sustained. The application was granted, and the plaintiff thereupon appealed to the Supreme Court of Kansas, the State in which the events happened. The net result of the legal arguments was that the case was remanded for a new trial, but not on the ground urged by the defendant. The Supreme Court held that the evidence showed negligence on the part of the defendant, whose sulphur-containing preparation must, in the circumstances, cause blackness of the skin, as he well knew. The Court quoted with approval an earlier pronouncement to the effect that "druggists, apothecaries, and other persons dealing in drugs, poisons, and medicines" were regarded as having "a special degree of responsibility corresponding with their superior knowledge."

## 'Flu in Horses and Cats

HERE is at present an extensive outbreak of febrile catarrh among horses and an epizootic of influenza among cats. Clinically there is some sort of resemblance between the two diseases. Both are highly contagious, affected animals having an elevated temperature and showing symptoms of catarrh of the respiratory system. Here the resemblance ceases. The disease in the horse is the old stable cold which is practically always to be found somewhere in each large town where there are a number of horses. Every horse-dealer knows the trouble well, and nearly every horse brought into the town experiences an attack of the disease shortly after being introduced into the town stables. The disease is usually mild in its course, and recovery normally takes place after the animal has been rested for a week or ten days and given a course of mild febrifuges, such as mag. sulph. and pot. nit. Less mild cases may, perhaps, need medicated inhalations and expectorant electuaries, while severe cases may require vaccines or other biological therapy. Relapses are not uncommon if the animal is put to work soon after the attack, and in such cases pneumonic and pleuritic sequelæ are fairly common.

### Relationship of Diseases

Cat 'flu is one of the clinical group of diseases variously termed "influenza of the cat," "contagious catarrh," "feline distemper," "show fever," "infectious gastro-enteritis of cats," and so forth. Although opinions differ as to the relationship of these complaints, there appears to be some evidence that they are merely different clinical pictures of the same disease. Distemper of the cat is quite different from canine distemper, while cat 'flu has no relationship to influenza or pink eye in the horse. The clinical picture in so-called cat distemper, however, is not altogether dissimilar from that of canine distemper, and it may be of interest to recall that, in spite of the various manifestations of clinical canine distemper, this disease is a simple febrile condition due to a filtrable virus; the symptoms produced in the usual case being due mostly to secondary invaders. Feline infectious gastro-enteritis, distemper, and show fever have been shown by independent researchers to be also due to a filtrable virus; and cats which have been immunised against show fever have also escaped infection from the other diseases previously mentioned in spite of abundant opportunities for infection. The present outbreak of cat 'flu appears to be characterised by both respiratory and intestinal catarrh. The usual history is that the cat appears a little "off-colour," and perhaps either refuses food or has a diminished appetite. The temperature is elevated, there is a thin watery discharge from the eyes and nose accompanied by sneezing. Later intestinal complications may arise, such as vomiting, constipation, jaundice and perhaps diarrhoea. The disease is extremely infectious and rapidly spreads from cat to cat, by contact, sneezing, and by articles which have been in contact with a sick cat. Thus blankets, bedding, feeding and drinking utensils are a ready source of infection, and, although the disease is in no way communicable to human beings, people are a very fruitful source of infection from hands and clothing. Careful nursing and hygiene, as in all diseases of the cat, plays a very important part in the treatment of sick

animals. The greatest problem is to induce the sick cat to take food; on no account should the owner attempt forcible feeding, for, in the struggle that so frequently ensues, some of the food may be inspired into the lungs and then septic pneumonia is the usual sequel. Much can be done by patient inducement to get the animal to take nourishment; the various baby and invalid foods used for humans are invaluable. Meat extracts are of limited use. Ordinary sweetened condensed milk smeared on the lips is often the only means of inducing the animal to take food. Cats dislike the sticky mess round their lips and will lick themselves clean and thus, often unwittingly, ingest nourishment. In the treatment of this complaint it is often necessary to administer a purgative and for this purpose a calomel pill may be prescribed, especially where jaundice is present. Calomel is a most useful drug, but it is advisable to administer first a dose of sodium bicarbonate.

### Mortality Rate

The mortality from the present outbreak has been stated by the national Press to be 80 per cent. This figure is certainly higher than that obtaining amongst the patients treated by the majority of veterinary surgeons, but it is in all probability not an over statement in the case of animals which have not had the advantage of qualified attendance, for the cat is often a difficult patient, and the disease is one of the most trying of feline diseases which the veterinarian is called upon to treat. There is reason to hope that the day is not too far distant when specific biologicals will be available for the prevention and treatment of feline distemper. Pending such remedies all that can be done is to deal with the individual symptoms as they arise with expectorant electuaries, gastric sedatives, intestinal antiseptics, febrifuges and tonics.

**U.S. FAIRCHILD SCHOLAR.**—The 1935 winner of the Fairchild Scholarship for the United States was Ferdinand Zienty, of Chicago. He graduated in pharmacy from the University of Illinois College of Pharmacy, receiving "A" in every subject except one.

**COLOUR BLENDING BY MOLECULAR COMPOSITION.**—The possibility of "grafting" a molecular radicle of known coloration on to a molecule already possessing a colour due to another radicle in order to obtain an additive effect has been investigated by S. A. Berkoff ("Bulletin de la Société Chimique de France," August-September, 1935). The double diazo compound of benzidine may be presumed to take its yellow colour from the diazo radicle, since benzidine itself is colourless. In structure it may be pictured as two benzene rings, joined at one extremity and having a diazo grouping attached to each other. If, at the point of union of the benzene rings, a violet-red triphenylmethane group is introduced, the resultant compound might be expected to combine the two colorations. The product is, in fact, orange, and shows the spectrum bands of both groupings when examined spectrographically. As the result of a number of experiments the writer reached the conclusion that the coloration effects of each molecular grouping were additive when the radicles were chemically combined.

# Import Duties Act Exemptions and Additional Duties

The following lists of articles of interest to the chemical and allied trades (a) at present on the Free List and (b) liable to additional duties have been compiled from Orders issued from 1932 to date

**ARAROBA (CRUDE).**  
ARGOL and other crude tartrates.  
**BILBERRIES.**  
BISMUTH METAL, but not including alloys of bismuth.  
BORON MINERALS, crude, and concentrates of boracite and rassorite.  
BRISTLES of the pig, hog or boar imported in bundles or bunches which consist exclusively of such bristles and in which the bristles are laid parallel, excluding bundles or bunches which are in a state ready, or substantially ready, for incorporation in a brush or broom.  
**BROMINE.**  
CADMIUM MASS, consisting substantially of finely divided metallic cadmium and iron partially oxidised.  
**CALCIUM CARBIDE.**  
CALCIUM CYANAMIDE (or cyanamide of lime).  
CARBORUNDUM, crude, ground or graded but not further manufactured.  
CASSAVA (or tapioca) in any of the following forms, namely, root, flour, and starch, but not including the foodstuff known as tapioca.  
**CASSIA PULP.**  
CHEMICALS.—The chemicals which have for some years been exempted annually from liability to Key Industry Duty are not included in this list, except those which have also been exempted from duty under Import Duties Act.  
**CINCHONA BARK.**  
COBALT METAL in the form of rondels, pellets or squares, but not including alloys of cobalt.  
**COCA LEAVES.**  
**COPPER IODIDE.**  
COPPER, unwrought, whether refined or not, in ingots, bars, blocks, slabs, cakes and rods.  
CORK, raw and granulated, cork shavings and waste.  
COTTON (RAW) (including unmanufactured cotton waste and unbleached cotton linters).  
**COTTON SEED.**  
CRUDE DRUGS, etc., in a dried state, not chopped, ground, manufactured or prepared, the following: Aloes ; balsam of tolu ; cassia pods ; cochineal ; damiana leaves ; digitalis leaves and seeds ; ergot of rye ; ephedra stems and branches ; gentian root ; henbane (*hyoscyamus muticus*) leaves, stems and roots ; henna leaves ; hydrastis rhizomes ; ipomoea (*orizaba jalap*) root ; jaborandi leaves ; jalap root ; leptandra root ; liquorice root ; lobelia ; orris root ; podophyllum and Indian podophyllum rhizomes ; quillaia bark ; saffron (*crocus sativus*) stigmas and styles ; sarsaparilla root ; scammony root ; senna leaves and pods ; slippery elm bark ; squills ; stramonium leaves ; tonquin beans ; uva ursi (bearberry) leaves ; valerian root ; witch hazel (*hamamelis*) bark and leaves.  
DYESTUFFS, etc.: Synthetic organic dyestuffs (including pigment dyestuffs) whether soluble or insoluble, and compounds, preparations and articles suitable for use in dyeing manufactured from such dyestuffs, but not including organic intermediate products used both as dyestuffs and in the manufacture of dyestuffs.  
**EMERY (CRUDE), unground.**  
ESSENTIAL OILS, the following: Aniseed ; bois de rose ; brown camphor ; bergamot ; geranium ; lavender ; lemon ; peppermint.  
**FARINA (or potato starch).**  
FELSPAR, raw, including crushed but not ground.  
**FERRO-CHROMIUM.**  
FERRO-MANGANESE; refined, containing less than 3 per cent. carbon.  
FERRO-SILICON, containing not less than 35 per cent. of silicon.  
FLAX, not further dressed after scutching or decorticating ; tow of flax.  
FLINT, unground.

**GALLNUTS.**  
**GLYCOL ETHERS AND GLYCOL ETHER-ESTERS.**  
GOLD AND SILVER BULLION AND COIN ; platinum in grain, ingot, bar, or powder.  
**GUM ARABIC (ACACIA).**  
**GUM TRAGACANTH.**  
INSULIN and its salts.  
**IPECACUANHA ROOT.**  
**IRON BROMIDE.**  
**IRON PYRITES**, including cupreous pyrites.  
**IVORY (ANIMAL)**, raw, whether whole tusks or sections of tusks, not cut to shape or in any way prepared, treated or worked.  
**JUTE, raw.**  
**KELP.**  
**LINSEED.**  
**MERCURY.**  
METALLIC ORES, concentrates and residues ; scrap metals and wastes fit only for the recovery of metal.  
MICA slabs and splittings.  
**MINERAL PHOSPHATES OF LIME.**  
MOLASSES, when delivered to a licensed distiller for use in the manufacture of spirits or yeast, or to a person for use in the manufacture of yeast in premises used solely for that purpose, or if it is used solely for the purpose of food for stock.  
**MYROBALANS.**  
NICKEL-COPPER ALLOYS in the form of ingots, blooms (including sheet bars), bars, rods, sheets and billets, whether pierced or not, and containing more than 60 per cent. by weight of nickel.  
**NICKEL HYDROXIDE.**  
NICKEL MASS, consisting substantially of nickel hydroxide and graphite.  
NICKEL, unwrought, in ingots, cathodes, cubes, rondels, pellets, shot and grain, but not including alloys of nickel ; nickel powder.  
**NITRATE OF LIME.**  
**PERSIAN BERRIES.**  
PHOTOGRAPHIC PLATES OR FILMS (EXPOSED) AND PHOTOGRAPHIC PRINTS (other than cinematograph films and prints therefrom) imported in a packet not exceeding eight ounces in gross weight, which does not form part of a larger consignment.  
POTASSIUM CARBONATE, CHLORIDE AND SULPHATE ; kainite and other mineral potassium fertiliser salts.  
**PYRETHRUM FLOWERS.**  
**QUERCITRON BARK EXTRACT.**  
**RADIUM COMPOUNDS AND ORES.**  
**RAMIE, not dressed.**  
**RAPE SEED.**  
RAW DIATOMACEOUS EARTH as quarried.  
REEDS (COMMON) (*phragmites communis*), crushed and baled.  
ROCK CRYSTAL QUARTZ, raw, including crushed.  
**ROSIN (colophony).**  
SCIENTIFIC FILMS, that is to say, cinematograph films which are certified by the Royal Society of London for promoting natural knowledge to be solely an illustration of scientific investigation for exhibition before members of a recognised scientific body and which are imported only for the purpose of such exhibition free of charge.  
SEAWEED, raw, unground, dried or bleached but not further prepared or treated.  
**SHELLAC, SEED LAC AND STICK LAC.**  
**SILICO-MANGANESE.**  
SILICON and alloys thereof containing not less than 95 per cent. of silicon.  
**SILKWORM GUT** in hanks or bundles.  
**SOLID INSOLUBLE QUEBRACHO EXTRACT.**

SOLID NATURAL RESINS, but not including gum resins, damar or amber.

SOYA BEANS.

STRAW PULP (BLEACHED).

SULPHUR.

SUMACH LEAVES (but not including ground sumach leaves).

TALC, STEATITE AND SOAPSTONE, whether ground or not.

TANTALUM METAL in the form of powder, sheet, plate, bar, wire or tube, but not including alloys of tantalum.

TUNG OIL, raw (China wood oil).

VEGETABLE FIBRES of the following varieties, namely: Bahia piassava (*attalea funifera*); Para piassava (*leopoldinia piassaba*); Mexican fibre or Iistle (*agave heteracantha*); Madagascar fibre (*dicty osperma fibrosum*) and Gumati or Gomuti fibre (*arenga saccharifera*), not further dressed after scutching or decorticating.

WAX of the following varieties: carnauba; candelilla; montan. WHALE OIL and hardened whale oil.

WHALE PRODUCTS shown to the satisfaction of the Commissioners of Customs and Excise to have been produced or manufactured in floating factories which are British concerns.

WHITE ARSENIC.

WOOD PULP and esparto.

Rates of duty on the following articles have been increased from the general 10 per cent. *ad valorem*, under the Import Duties or the Ottawa Agreements Acts. The latter are marked O.A.D.

ASBESTOS GOODS, wholly or partly manufactured: 15 per cent.

BOTTLES AND JARS other than syphon vases; tubular containers whether corked, capped or not; stoppers and covers for bottles and jars whether ground or not: 25 per cent.

CASTOR, COCONUT, GROUNDNUT, RAPE and SESAMUM OILS: 15 per cent. O.A.D.

CHEMICALS, the following: Lactose, 3d. per lb. Tartaric Acid, 15 per cent. Cream of Tartar, 20 per cent. Citric Acid, 20 per cent. Ammonia Alum, Soda Alum and Potash Alum, £2 per ton. Aluminium Sulphate, £2 per ton. Ammonium Chloride, 20 per cent. Lithopone, 20 per cent. Acetone, 20 per cent. Acetic Acid, not exceeding 95 per cent., 20 per cent.; exceeding 95 per cent., 33½ per cent. Acetate of Lime, 33½ per cent. Formaldehyde, 25 per cent. Menthol, other than natural, 33½ per cent. Boric Acid, refined, and Borax, refined, 20 per cent. Nitric Acid, 15 per cent. Aluminium Oxide, hydrated, £3 per ton or 20 per cent., the greater; anhydrous, 20 per cent. Ammonia, anhydrous, 20 per cent. Ammonia, liquor, 20 per cent. Ammonium Sulphate, 20 per cent. Ammonium Nitrate, 20 per cent. Sodium Nitrate, 20 per cent. Sodium Nitrite, £4 per ton. Calcium Chloride, 20 per cent. Collodion Cotton (nitro-cellulose), 20 per cent. Tin Oxide, 20 per cent. Zinc Oxide, 20 per cent. Nicotine, Nicotine Sulfate and Nicotine insecticides, 20 per cent. Di-Sodium Phosphate, £1 15s. per ton. Tri-Sodium Phosphate, £2 10s. per ton. Lead Acetate, 25 per cent. Superphosphate of Lime, 10s. per ton or 20 per cent., the greater.

CITRUS FRUIT JUICES, unsweetened and sweetened: 15 per cent.

COD-LIVER OIL: 1s. 4d. per gallon. O.A.D.

DENTURE BOWLS: 30 per cent.

FRUIT PECTIN other than citrus pectin in powder form: 25 per cent.

GLUE, GELATIN AND SIZE, in any form, derived from animal or fish, and osseine: 10s. 6d. per cwt. or 25 per cent., the greater.

HONEY: 7s. per cwt. O.A.D.

LINSEED OIL: £3 10s. per ton (including duty under Section 1 of the Ottawa Agreements Act, 1932).

MAGNESIUM CHLORIDE: 1s. per cwt. O.A.D.

MEDICAL, SURGICAL, DENTAL, VETERINARY and DISSECTING INSTRUMENTS and parts thereof: 20 per cent.

MILK POWDER and other preserved milk: 60 per cent. O.A.D.

NAIL POLISHERS, Clippers, Cleaners and Files, Manicure Sets: 30 per cent.

PEPPERCORNS, the fruit of *piper nigrum*, unground: 7s. 3d. per cwt.

PHOTOGRAPHIC PAPER, cloth, plates and film, unexposed, sensitised (other than cinematograph): 25 per cent.

POWDER BOWLS, Boxes and Puffs and parts thereof: 25 per cent.

SAFETY RAZOR BLADES AND BLANKS, unground: 20 per cent., plus 1s. per gross; other blanks, 20 per cent., plus 2s. per gross.

SCISSORS (other than secateurs): 20 per cent. or a specific duty ranging from 2s. to 3s. 6d. a dozen pairs, according to length.

SECATEURS, RAZORS, including safety razors. KNIFE SHARPENERS. And component parts or blanks of these articles: 20 per cent.

SOAP AND SOAP POWDER (excluding toilet soap): 20 per cent. Soap Flakes: 15 per cent.

SPECTACLES, Eye-Glasses and Monocles: 33½ per cent.

TOILET PREPARATIONS (excluding essential oils), the following descriptions: Toilet Soap, Tooth Paste or Powder, Mouth Washes, Toilet Paste and Powder, Toilet Cream, Hair Dyes, Scented Sachets, Lipstick, Rouge, Grease Paint, Preparations for use in manicure or chiropody, Preparations for use on the hair, face or body, Bath Salts and Essences, Smelling Salts, Fullers Earth: 30 per cent.

VACUUM FLASKS, vacuum jars and similar vacuum vessels whether fitted or not: 30 per cent.

## Comfort at the Counter

Our contributor suggests that convenience in working should receive more attention

In spite of considerable advances in the adaptation of fittings to modern methods of display, improvements for the convenience of the man behind the counter have not received so much attention. In many pharmacies the counter case takes up nearly the whole breadth of the counter top, so that there is only a narrow ledge of three or four inches behind it. There is no room to wrap up larger parcels in comfort, and if it is required to cut off some sheeting or to handle some bulky article it has to be taken round to the dispensing counter—to the inconvenience of the dispenser. I have worked in a shop where sheeting could only be unrolled on paper laid on the floor.

### Obstructive Fittings

The till is often placed in an awkward position, so that when it is opened it obstructs the free passage, and when the till and a drawer at the back are open at the same time there is a complete block. All serving counters should have a gangway at each end, so that any assistant can get to the front part of the shop without having to pass another or to go round the dispensing counter. The drawers in the wall fitting can now be labelled in accordance with their contents instead of with the names of obsolete drugs, but it would be useful if a strip of celluloid or some washable material was let into the top edge of the drawer front for the purpose of marking the prices of the contents, so that alterations can be made as required. If each drawer is priced in this way it saves a lot of time.

### Window Contortionists

Coming to the window, what contortionists chemists' assistants are supposed to be, and what back-breaking attitudes they have to endure during the task of dressing. Is it not possible to devise some window fittings whereby the chemist could dress the shelves from inside the enclosure? And lastly the dispensing counter. I think that from the point of view of advertising the dispensing department and educating the public a visible dispensary is good, but a certain amount of shelf space must necessarily be lost for dispensing rounds, and it is important to arrange these so that the dispenser can do his work with the minimum of movement. The sink should not be in the dispensing counter itself as it often is, but it should be handy. I do not think it is advisable for the poison and D.D.A. cupboards to be visible to customers. It is better to keep the idea of poison from their notice, especially if they can see the movements of the dispenser. Many chemists are able to devise and fit up improvements for convenience in working themselves, but there are also those who are perhaps not handy with tools or who have no time, and many of these small items should be included as a regular part of shop fitting.—C. H. C. (27/12).

## Astronomical Physic

**T**HREE was a time when a higher importance was placed on the time at which medicine should be administered than is the case to-day. True, the present-day physician may state "after food," or "every four hours" or perhaps even "as occasion demands." Nevertheless, he entirely ignores the inclination of the sun, the fullness of the moon, or the positions of the planets, factors of vital importance to the publisher of "Hopton's Concordancy of Yeares," an astrological almanac published in London in 1635. According to the title-page, this contains "a briefe and more perfect account of the yeares of our Lord God, than any other heretofore published, agreeing with the yeares of all the reignes of the kings of England since the conquest. With . . . tables as well mathematicall and legall as vulgar, for each private man's occasion." Chapter XXXVIII of this work is entitled "Astronomical Elections for Physick and Chyurgery, de-

The  $\Delta$  in  $\{\ddot{\gamma}$ , Purge  $\ddot{\gamma}$  cholerick,  $\ddot{\gamma}$  non vta,  $\ddot{\gamma}$  With  $\Delta$  in  $\{\ddot{\gamma}$ , Purge the Phlegmatiche.  $\Delta$  with  $\{\ddot{\gamma}$ , Purge the Melancholy.

The  $\Delta$  in  $\{\ddot{\gamma}$ , Purge  $\ddot{\gamma}$  cholerick vt supra  $\{\ddot{\gamma}$  With any  $\Delta$  in  $\{\ddot{\gamma}$ , Purge the Phlegmatiche.  $\Delta$  of  $\{\ddot{\gamma}$ , Purge the Melancholy.  $\Delta$  medicins.

But let not the moone be in any of the signes that chaw the cud, as  $\text{V}$ ,  $\text{S}$ ,  $\text{J}$ , for then the medicine will stay but a little with the Patient, causing him to vomit, unlesse you intend to purge by vomiting. Also in purging the melancholy let not *Saturne* haue dominion, nor *Jupiter* in purging the sanguine, or the liver; nor *Mars* the cholerick, bitter sweats, &c. nor *Luna* the head, nor *Mercury* in purging the lungs.

### DIRECTIONS FOR ADMINISTERING PURGATIVES

pending upon the place, and the course of the Moone," and commences with the following passage:—

" If thy body be filled with naughty and superfluous humors, then were it convenient for thee to draw blood, so the heavens consent thereunto, and thy age agree therewith: which being not circumspectly weighed, it may be most dangerous to the Patient (of which no understanding man is ignorant) but when necessarie urgeth, as for the *Pestilence*, *Plurisie*, *Phrenzy*, &c., then, though the heavens deny, yet a veine is speedily to be opened, *ad algri salutem*. This considered, of medicines some be purgative, some confortive, and others in the meane betwixt both. Medicines purgative be either *Solvendo*, or *Leniendo*: In the first the moone must be in *Cancer*, *Scipio* or *Pisces*. For the other, the moone must be taken when she worketh more in moistnesse than drynesse, being in a *trine* or *sextile* with *Mars*: and you must take heed in the houre of giving the medicine lest the moone have any aspect with *Saturne*: for hee congeales the humors, making the medicin worke little. Likewise, let her be free from any aspect with *Jupiter*: for he is the giver of life, the helper and comforter of the vertues, so that the medicine can but weakly expel the humors, making the body affected with an evill quality."

Instructions are given, in various stellar groupings, to purge the cholerick, the phlegmatic or the melancholy, with electuaries or, in others, with potions, pills or any kind of medicine, as the case might be. " But let not the moone be in any of the signes that chaw the cud, for then the medicine will stay but a little with the Patient, causing him to vomit, unlesse you intend to purge by vomiting. Also in purging the melancholy let not *Saturne* haue dominion, nor *Jupiter* in purging the sanguine, or the liver; nor *Mars* the choleriche, bitter sweats, &c., nor *Luna* the head, nor *Mercury* in

purging the lungs." Various paragraphs then follow, such as " How the vertues be corroborated; Rules for drawing of blood; For Complexion; For age let blood; For the time of yeare," etc., from which the following information is to be gleaned: " Also the signes thus governe the vertues, *Aries* and *Sagittarius* rule the *Attractive*, *Gemini* and *Libra* the *Digestive*, *Taurus* and *Virgo* the *Retentive*, and *Cancer* and *Pisces* the *Expulsive*." " In letting of blood you must know what persons are fit to bleed, and what not; and if they be fit, how it is with the Patient inwardly, for his complexion and age, and outwardly for the time of the yeare, time of the month, day and diet." As to the time of day most propitious for bleeding, apparently " the morning fasting is best, or in the evening after perfect digestion, provided the aire be temperate and the wind not south . . . After bleeding use no violent exercise, no sleeping, venery or gluttony." The importance of diet is insisted upon: " Grapes, Raisons, and Figges be good before meate, morning milke drinke fasting. . . . Beefe not above three yeares old," etc. " New cheese, Rapes, Lambes, Cowcumberes, all great Fish, Lungs, Braines, inward parts of beasts, and meats full of sinewes" are " Meat good to temper choler, and to asswage Heate with Moistnesse," " Good for the eyes" are " Fennell, Verven, Cloves, Cold water, Celendine, Eye-bright"; for the liver, " Lettice, Liver-wort, Violets, Rose-water, Plantan, Fennell and Cloves"; and for the lungs " Licoris, Raisons, Almonds, Dates, Lung-wort and pennidice." Baths had also to be taken with caution, and after consulting the heavens. " Bathes be used for the cause of health or cleanliness: for cleanliness take the moone in *Libra* or *Pisces*, in *Sextile* or *Trine* with *Venus*. Being used for health, consider if the sicknesse proceed of driness or moistnesse. If of moistnesse, take the moone in *Aries*, *Leo*, or *Sagittarius*, in *sextile* or *trine* with *Sol* or *Mars*. If of drynesse, let the Moone bee in *Cancer*, *Scorpion* or *Pisces*, aspected as before with *Jupiter* or *Venus*."

## Vitamin D by Inunction

It was shown by experiments in 1927 that administration of vitamin D by inunction was a practical method of application. To prove that the absorption of vitamin D from the skin was a possibility experimental animals were fed on a ricket-producing diet for four weeks, then irradiated cholesterol, with hardened cotton-seed oil to make the cholesterol adhere, was applied to the depilated backs of the animals for ten minutes three times a week. The inunction resulted in renewed growth, protection from rickets and an almost normal calcification of the bones. Later, in 1934, another investigator demonstrated that sufficient amounts of anti-rachitic factors to prevent the developments of rickets could be absorbed from the tails of animals. To preclude the possibility of oral ingestion the tail of the experimental animal was encased in a glass tube and irradiated ergosterol in liquid paraffin was applied to the tail alone. As in the earlier experiments rickets failed to develop. Recently, in 1935, an attempt has been made to determine the amount of vitamin D it is necessary to absorb through the unbroken skin to prevent and heal rickets in experimental animals. Animals were fed on a standard rachitogenic diet and areas of skin from which the hair had been removed by a sulphide depilatory were treated by irradiated ergosterol inunction. The x-rays and "line charts" indicated that the inunction not only prevented rickets but produced well-advanced healing. Control experiments were carried out using irradiated mineral oil, but this only resulted in an irregular increase in width of the cartilaginous zone between the shafts of bones. When irradiated ergosterol was added, however, normal bone calcification was promoted. As the irradiated mineral oil which is capable of sending out secondary irradiations failed to protect the control animals against rickets, it would appear that vitamin D is absorbed directly from the skin, by direct molecular absorption, rather than by secondary irradiation. From the evidence available, although the dermal absorption of vitamin D appears to be an established fact, the advantages of such a method of administration are not quite clear. It has been suggested that such a method may prove useful in children lacking the ability to utilise vitamin D preparations administered orally, but such cases must be extremely rare. Further, the dose of the dermal method appears to be about forty-five times that of the recognised effective oral dose, which in itself indicates that the method is uneconomical and impracticable.

# Use of Resorcinol in Chemical Analysis

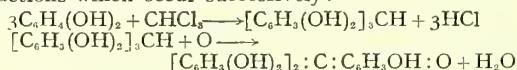
II—In the Detection and Differentiation of Certain Hydrocarbon Halogen Derivatives and in the Detection and Quantitative Determination of Nitrites

By Alan H. Ware, Ph.C.

## Hydrocarbon Halogen Derivatives

In this second article tests will be described which depend upon the power possessed by resorcinol, in common with other phenols, of displacing the halogen in the tri- and tetra-halogen derivatives of methane and certain other compounds, with the result that bodies possessing characteristic colour or fluorescence are produced. The reactions involved differ from those discussed in the earlier article in the following important details:—

- (a) They are usually obtained by heating the reacting bodies in alkaline instead of acid solution.
- (b) Halogen atoms instead of an oxygen atom (or possibly in some cases in addition to an oxygen atom) are displaced by the resorcinol residues.
- (c) In most of the cases discussed, compounds belonging to the tri-phenyl-methane series, instead of to the diphenyl-methane series, are produced primarily. Subsequently coloured or fluorescent bodies are formed as a result of a secondary action, much as in the case of the diphenyl-methane condensation products previously described. Taking resorcinol and chloroform as an example, the following equations probably represent the reactions which occur successively:—



As already indicated, other phenols give similar results; but resorcinol has been selected because it appears to give a larger number of specific results than any other. If, however, the reaction is to be made use of for the identification of phenols a paper by Trease and Tingey ("Year-Book of Pharmacy," 1926, 438) should be consulted. The present writer has borrowed some of the suggestions of that paper, but he has modified and extended the method to make it more particularly suitable for the purpose of detecting and differentiating as large a number of halogen derivatives as possible. The method will now be described, together with the more important results obtainable.

(1) *Preliminary Test.*—0.05 gm. each of the substance, if a solid, and resorcinol are boiled for one minute with 10 mils of 5-per-cent. aqueous potassium hydroxide, a little copper being used as a catalyst. If a volatile liquid is to be tested about one mil is taken. The mixture is then cooled under the tap and again boiled, this time the boiling being continued for 5 minutes, if necessary.

*Results.*—The following substances of pharmaceutical interest give a rich pink, carmine or occasionally brownish-carmine (diluting pink) colour:—Chloroform, bromoform, iodoform, chloral hydrate, chloral formamide, trichloracetic acid, carbon tetrachloride and trichlor-phenol. Chlorbutol gives a negative response to this method and all methods tried. Butyl-chloral hydrate gives a negative response to this method but a positive response to Test (3) described below. For benzotrichloride see (4) below. The writer has not had time or opportunity to test other likely compounds, but the result given by trichlor-phenol makes it probable that this method would yield results of interest with bodies other than those in which a halogen has replaced hydrogens of the methane or methyl group; it is of course possible that the reaction in this case is of a different character.

(2) *Test to Differentiate  $\text{CCl}_4$ .*—This gives no characteristic colour if the test is repeated without the copper. The other substances listed under (1) all give some positive response without the copper. In the case of iodoform the response is a poor one.

(3) *Test to Differentiate those Trichlormethane Derivatives which also possess the carbonyl group.*—If 2.5-per-cent. aqueous ammonia be substituted for the 5-per-cent. aqueous

potash (and the test repeated otherwise as before), specific results are given differentiating certain halogen derivatives containing the carbonyl group in the molecule.

*Results.*—Chloral hydrate, chloral formamide, trichloracetic acid and butyl-chloral hydrate all give a brownish or brownish-carmine solution which shows an intense green fluorescence if well diluted with water until pink or yellow to transmitted light.

(4) *Test for Benzotrichloride.*—If the test is carried out in the first instance with alkali, benzotrichloride gives no distinctive colour-reaction or fluorescence; but if the two reacting substances are warmed together in a dry test-tube a carmine or brown product is obtained which gives an intense fluorescence (green) if dissolved in aqueous alkali and sufficiently diluted with water. This reaction is almost certainly due to the hydrolysis of the compound resulting in the production of a carbonyl group in the molecule, a secondary condensation then following.

## Nitrites

Resorcinol can very advantageously be used for the detection of a minute proportion of nitrites, more especially when only small quantities of the substances containing them are available.

*Method.*—2 mils of the aqueous solution to be tested and 0.05 gm. of resorcinol are placed in a test-tube, and 3 mils of nitrogen-free sulphuric acid poured down the side of the tube and mixed by gentle shaking. The mixture is then allowed to stand for two minutes, and at the end of this period it is diluted with 5 mils of water and cooled. 5 mils of this solution is now added carefully to 5 mils of concentrated aqueous ammonia kept cool. Excess of ammonia must be present in this final admixture.

*Results and Discussions.*—0.00002 gm. of sodium nitrite in the form of 2 mils of a 1 in 100,000 solution in water gives in the acid admixture a wine-purple colour, 2 mils of a 1 in 50,000 solution gives a purple-violet colour, and 2 mils of a 1 in 20,000 solution gives a blue-violet colour. In all cases after adding to the aqueous ammonia a rich scarlet or vermillion fluorescence is given. The intensity of the fluorescence is a measure of the amount of nitrite present, and can be compared with that given by solutions of nitrite of known strength; for example, 10 mils of the final fluorescent admixture obtained by using a solution of the nitrite of 1 in 50,000 strength requires to be diluted to 20 mils with water in order that the fluorescence shall be of the same intensity as that given by a solution of 1 in 100,000 strength. A rough preliminary indication of the range of strength is given by noting the colour given in the acid admixture as illustrated above. Although the test or modifications of it will detect much weaker solutions than those of a strength of 1 in 100,000, better results are obtained by concentrating such solutions until the strength is 1 in 100,000 or over. It is obvious that this is easily and quickly effected seeing that such a very small quantity is needed for the test.

*Nitrite in Sulphuric Acid.*—Many commercial samples of sulphuric acid sold as B.P. will be found to give a positive response to this test. The acid may be tested by adding 3 mils to 2 mils of an aqueous solution of 0.05 gm. of resorcinol, using the precautions and subsequent procedure described above.

*Footnote.*—The statement made in the British Pharmacopœia that "an alkaline solution of resorcinol exhibits a strong greenish fluorescence and darkens in colour" is so bald as to be very misleading. It is quite possible for experimenters to be using resorcinol in alkaline solution for months for various purposes without seeing any fluorescence, for its development depends upon time and other factors. Actually the behaviour of resorcinol with alkalis is of an exceptionally specific character.

# Trade Report

Where possible scales of prices of chemicals are given for bulk down to small quantities. Prices recorded for crude drugs, essential and fixed oils and coal tar products are for fair sized wholesale quantities. Qualities of chemicals, drugs, essential and fixed oils, etc., vary, and selected brands or grades would be at higher values.

## 28 Essex Street, W.C.2, August 29

THE bulk of the business being done continues chiefly in crude drugs and a few essential oils. In these markets there have been some further sharp appreciations in values. Purchases by consumers seem to have been heavy and there has been quite a good volume of export trade. Buyers may have in mind the fact that should the Abyssinian dispute develop it may affect shipments and values of many products. The general tone in the pharmaceutical chemicals markets is quietly steady, with no change of importance to record.

### Crude Drugs

Home trade and export business in a number of these products has been unusually brisk this week and values continue to advance, with supplies becoming very short. AGAR has sold steadily on spot at increasing figures and the shipment market is again sharply dearer, with offers now very restricted. Spot and shipment prices for Cape and Curaçao ALOES are dearer, with supplies, particularly on spot, practically exhausted. Better prices are being quoted for BALSAM TOLU on spot. BUCHU is firm on spot and ovals are dearer. Chinese CANTHARIDES are slightly easier on spot. The shipment market for CASCARA SAGRADA is firm, with very few offers at higher figures; spot offers have been put up in sympathy. New crop Belgian CHAMOMILES are quoted cheaper for shipment. DERRIS ROOT has been neglected. An extraordinary position has developed in ERGOT, and it is clear that there is a world shortage, due chiefly to the failure of the Spanish crop. The spot market is nominal, with the limited supplies withdrawn, and there is practically nothing offering for shipment, with bids at a sharp advance refused. HONEY meets with fair business and is quite steady, with a tendency to harden. Business in IPECACUANHA has been good and the market is much steadier. There has been a minor boom in MENTHOL, with brisk business on a rising market. Japanese shippers are particularly firm. MERCURY is reported to have sold well throughout the month. There has been a better demand for all descriptions of SENNA and the market has a stronger tone. Most grades of TRAGACANTH have met with a slow sale. CARNAUBA WAX continues to receive good inquiry. Cabled advices received Thursday indicate further sharp advances in CASCARA SAGRADA and ERGOT for shipment.

### Essential Oils

In the majority of products in this market business has been none too good and mostly for small spot lots. One or two items, however, have been quite active. ANISE (STAR) remains dull, but the shipment market is steadier at the recent decline. BERGAMOT is firmer forward. Shipment offers of CANANGA are a little more liberal. Java and Ceylon CITRONELLA continue at very cheap prices, but fail to attract much business. New crop LAVENDER prices are still being withheld, with indications of sharply increased values. The demand for Sicilian hand-pressed LEMON has slackened and the shipment quotations for some brands tend easier. Business in ORANGE of all sources has been comparatively small. Japanese PEPPERMINT has been active and spot and shipment prices are dearer, closing very firm. American PEPPERMINT has now reached low figures. Due to short crop the SPEARMINT shipment market is firmer.

### Exchange Rates on London

THE following is a list of the chief Continental and other exchange rates at the opening on Thursday morning:

| Centre     | Quoted      | Par                | August 29          | Value of the £     |
|------------|-------------|--------------------|--------------------|--------------------|
| Amsterdam  | Fl. to £    | 12.107             | 7.33 <sup>1</sup>  | 12/1 <sup>1</sup>  |
| Berlin     | Mks. to £   | 20.43              | 12.35              | 12/1               |
| Brussels   | Belgas to £ | nominal            | 20.49              | 16/11              |
| Copenhagen | Kr. to £    | 18.259             | 22.40              | 24/8               |
| Lisbon     | Esc. to £   | 110                | 109 <sup>3</sup>   | 10/11 <sup>1</sup> |
| Madrid     | Ptas. to £  | 25.22 <sup>1</sup> | 36 <sup>1</sup>    | 28/9               |
| Milan      | Lire to £   | 92.46              | 60 <sup>1</sup>    | 13/1 <sup>1</sup>  |
| Montreal   | Dol. to £   | 4.86 <sup>1</sup>  | 4.98 <sup>2</sup>  | 20/6               |
| New York   | Dol. to £   | nominal            | 4.97 <sup>1</sup>  | 20/5 <sup>1</sup>  |
| Oslo...    | Kr. to £    | 18.159             | 19.90 <sup>1</sup> | 21/11              |
| Paris      | Fr. to £    | 124.21             | 75 <sup>3</sup>    | 12/1               |
| Prague     | Kr. to £    | 164.25             | 119 <sup>1</sup>   | 12/2               |
| Stockholm  | Kr. to £    | 18.159             | 19.39 <sup>1</sup> | 21/4               |
| Warsaw     | Zloty to £  | 43.38              | 26 <sup>1</sup>    | 12/0 <sup>1</sup>  |
| Zurich     | Fr. to £    | 25.2115            | 15.22              | 12/1               |

Bank rate 2 per cent.

### Pharmaceutical Chemicals, etc.

BUSINESS continues on rather modest lines, with the general tone steady. Prices for British products show no material alteration.

AMIDOPYRIN.—Quoted unchanged; market dull; crystals, five cwt., 18s. 0<sup>1</sup>d.; two cwt., 18s. 5<sup>1</sup>d.; less than two cwt., 18s. 10<sup>1</sup>d. per lb.; with powder 2<sup>1</sup>d. per lb. extra.

AMMONIUM ICHTHIOSULPHONATE.—Dealers report a quiet market: one cwt., 1s. 6<sup>1</sup>d., in 14-lb. tins; 1s. 8d., in 1-lb. tins; 1s. 10<sup>1</sup>d., in 8-oz. tins; and 2s. 1d. per lb., in 4-oz. tins.

ASPIRIN.—Makers' scale of prices maintained: home trade, ten cwt., 2s. 7d.; five cwt., 2s. 8d.; one cwt., 2s. 8<sup>1</sup>d.; 28 lb., 2s. 9d.; 14 lb., 2s. 10d.; 7 lb., 3s.; 4 lb., 3s. 2d.; 1 lb., 3s. 4d. per lb. Bulk packing free, net, carriage paid. Contracts: Over twelve months, minimum, one ton; over six months, less than one ton.

ASPIRIN (TABLETS).—The following are agreed wholesale prices of the British makers: Under 5,000, 3s. per 1,000; 5,000, 2s. 11d.; 10,000, 2s. 10d.; 25,000, 2s. 9d.; 50,000, 2s. 8d.; 75,000, 2s. 7d.; 100,000, 2s. 6d.; 250,000, 2s. 5d.; 500,000, 2s. 4d.; 1,000,000, 2s. 3d.; 2,000,000 and over, 2s. 2d. per thousand tablets. A rebate of 1d. per 1,000 is allowed on orders for 10 million tablets taken over a period of 12 months. For small quantities higher prices would be asked by wholesale distributors.

BARBITONE.—Fairly steady; occasional spot inquiry: spot, one cwt., 15s. 3<sup>1</sup>d.; 56 lb., 15s. 8d.; smaller parcels, up to 16s. per lb.

BENZOIC ACID (B.P.).—Market steady; fair business; quantities, ex works, 1s. 9<sup>1</sup>d.; spot parcels, 1s. 10d. to 2s. 2d. per lb., ex store, as to quantity.

BISMUTH SALTS.—Market fully steady at makers' scales of prices. Carbonate, one cwt., 6s.; 28 lb., 6s. 3d.; 8 lb., 6s. 9d.; less than 8 lb., 8s. per lb.

BROMIDES.—Moderate inquiry, with quoted values steady: ammonium, not less than five cwt., 1s. 9d.; one cwt., 1s. 10d.; small quantities, 2s. 5d. per lb.; potassium, B.P., crystals and granular, not less than five cwt., 1s. 6d.; one cwt., 1s. 7d.; 28 lb., 1s. 10d.; smaller quantities, 2s. 2d. per lb.; sodium, B.E., not less than five cwt., 1s. 8d.; one cwt., 1s. 9d.; 28 lb., 2s.; smaller quantities, 2s. 4d. per lb., net, without engagement. Special prices for larger quantities.

BUTYL CHLORAL HYDRATE.—Business unimportant; quoted unchanged: spot, 14 lb., 8s.; 7 lb., 8s. 3d.; 1 lb., 8s. 6d. per lb., in 1-lb. bottles.

CITRIC ACID (B.P. CRYSTALS).—Seasonal demand continues: British material quoted at 11<sup>1</sup>d. per lb., less 5 per cent. discount, nominal and without engagement. Dealers' prices for imported material are competitive.

COCAINE.—British makers' prices for this market for wholesale bulk quantities are as follows: HYDROCHLORIDE and NITRATE, 25 oz. and over, 29s. 9d.; 16 oz. and less than 25 oz., 30s. 9d.; over 8 oz. and less than 16 oz., 31s. 9d. per oz. PURE, CITRATE and SALICYLATE, 25 oz. and over, 32s. 6d.; 16 oz. and less than 25 oz., 33s. 6d.; over 8 oz. and less than 16 oz., 34s. 6d. per oz., 16-oz. packages free, smaller packing extra. The scales of prices applicable to distributors of smaller quantities are as follows: HYDROCHLORIDE and NITRATE, 8 oz., 34s. 1d.; 4 oz. and less than 8 oz., 34s. 7d.; 2 oz. and less than 4 oz., 35s. 5d.; 1 oz. and less than 2 oz., 36s. 5d.; 1/2 oz. and less than 1 oz., 37s. 11d.; 1/4 oz. and less than 1/2 oz., 40s. 11d. per oz. PURE, CITRATE and SALICYLATE, 8 oz., 36s. 10d.; 4 oz. and less than 8 oz., 37s. 4d.; 2 oz. and less than 4 oz., 38s. 2d.; 1 oz. and less than 2 oz., 39s. 2d.; 1/2 oz. and less than 1 oz., 40s. 8d.; 1/4 oz. and less than 1/2 oz., 43s. 8d. per oz., packages extra. Resale: Sales subject to buyers undertaking not to re-sell any quantity at below the scale price for such quantity current at the time of re-sale. These scales of prices do not apply to export business, particulars of which may be obtained from the usual sources of supply. Export prices vary as to destination and are unchanged.

CREAM OF TARTAR.—Average business: British material, 99 to 100 per cent., 79s. per cwt., less 2<sup>1</sup> per cent. discount. Dealers' prices for foreign material competitive.

GUAIACOL CARBONATE.—Market is dull; one cwt., 11s.; smaller parcels, 11s. 3<sup>1</sup>d. per lb.; some spot offers at less than these figures.

HEXAMINE.—Not much inquiry except for powder. B.P. powder, from 1s. 3<sup>1</sup>d. to 1s. 4<sup>1</sup>d.; free-running crystals, from 1s. 7d. to 1s. 8<sup>1</sup>d. per lb., carriage paid, for bulk lots. Dealers quoting free-running crystals, two cwt., 1s. 7<sup>1</sup>d.; one cwt., 1s. 8d.; 14 lb., 1s. 10d.; smaller parcels, up to 2s. per lb., carriage paid.

MERCURIALS.—Market continues steady at makers' scales. Chloride, B.P., one cwt., 4s. 9d.; smaller parcels, from 4s. 10d. per lb.

MEIHYL SALICYLATE.—Prices are being maintained; inquiry slow: spot, ten cwt., 1s. 5d.; five cwt., 1s. 5½d.; one cwt., 1s. 6d.; less than one cwt., 1s. 7d.; small quantities, in bottles, up to 2s. per lb.

MEIHYL SULPHONAL.—Small spot business; dealers' prices about steady: two cwt., 19s. 3½d.; one cwt., 19s. 9½d.; 56 lb., 20s. 2½d.; small parcels, 20s. 8d. per lb.

PARAFORMALDEHYDE.—Fair business; market keen for bulk business: 100 per cent. powder, quantities in kegs, 1s. 1½d.; smaller parcels, up to 1s. 6d. per lb.

PARALDEHYDE.—Steady at former scale: 1 w-quart, 1s. 9d.; 6 w-quarts, 1s. 7½d.; 12 w-quarts, 1s. 5½d.; 36 w-quarts, 1s. 4½d. per lb., carriage paid on minimum 6 w-quarts; one demijohn, 1s. 2d. per lb., carriage paid.

PHENACETIN.—Still but little business moving: crystals or powder, bulk quantities, 2s. 7d. to 2s. 9d.; smaller parcels, 2s. 9½d. to 3s. per lb.

PHENAZONE.—Dealers' prices are becoming steadier on spot: crystals, five cwt., 8s. 9½d.; two cwt., 9s. 0½d.; and less, 9s. 3d. per lb.; with powder 2½d. per lb. extra.

PHOTOGRAPHIC CHEMICALS.—AMIDOL.—28 lb., 7s. 6d.; 14 lb., 8s. 3d.; 7 lb., 9s.; under 7 lb., 11s. 9d. per lb., in 1-lb. bottles. CHLORQUINOL.—1-lb. bottles, 21s. per lb. CLYCLIN.—7 lb., 10s. 6d.; 1-lb. bottles, 13s. 6d. per lb. HYDROQUINONE.—56 lb., 4s. 10½d.; 28 lb., 5s.; 14 lb., 5s. 3d.; 7 lb., 5s. 6d.; 1-lb. bottles, 6s. 6d. per lb. METOL.—28 lb., 9s. 6d.; 14 lb., 9s. 9d.; 7 lb., 10s. 9d.; 3 lb., 11s. 6d.; 1-lb. bottles, 12s. 6d. per lb. ALUM (PHOTOGRAPHIC QUALITY).—1 cwt., 21s. per cwt.; 28 lb. for 6s. GOLD CHLORIDE.—15-grain tubes, 5s. 6d. per doz. MAGNESIUM POWDER.—10s. per lb. PARAMIDOPHENOL HYDRO-CHLOR.—8s. 6d. per lb. POTASSIUM FERRICYANIDE.—14 lb., 2s. 3d.; 7 lb., 2s. 6d.; 1 lb., 2s. 9d. per lb. POTASSIUM METABISULPHITE.—1 cwt., 7½d.; 28 lb., 8d.; 14 lb., 9d.; 7 lb., 11d.; 1 lb., 1s. per lb. PYROGLACILIC ACID.—28 lb., 6s. 9d.; 14 lb., 7s. 6d.; 7 lb., 8s. 3d.; under 7 lb., 8s. 9d. per lb. SODIUM CARBONATE (RECRYST.).—5 cwt., 12s. 6d. per cwt.; 1 cwt., 15s. 6d. per cwt.; 56 lb. for 11s. 6d.; 28 lb. for 6s. SODIUM HYPOSULPHITE, CUBE, CRYST.—5 cwt., 16s. 3d.; 1 cwt., 18s. 6d. per cwt.; 56 lb. for 11s. 6d.; 28 lb. for 6s. SODIUM SULPHIDE (PURE).—7 lb., 1s. 3d.; 1 lb., 1s. 6d. per lb.

PIPERAZINE.—Continental material quoted as follows: in 8-oz. bottles, 11 lb., 53s. 4½d.; 2 lb., 54s. 9½d.; less, 56s. 3d. per lb.; in 1-oz. bottles, 6s. 10d. to 6s. 9d. per lb., as to quantity, ex warehouse.

POTASSIUM PERMANGANATE (B.P.).—Dealers doing fair business at steady figures: quantities, in two-cwt. drums, 9½d. to 10d.; druggists' parcels, 10½d. to 1s. per lb., as to quantity.

POTASSIUM SULPHOGUAICOLATE.—Market very dull. Spot, about 6s. 3d. to 6s. 4½d. per lb., as to quantity.

QUININE SALTS.—Convention scales of prices continue steady; business about normal: sulphate, 2s. 1d.; bisulphate, 2s. 1d.; ethyl carbonate, 2s. 3½d.; salicylate, 2s. 0½d.; hydrochlor., 2s. 7½d.; hydrochloride, 2s. 10½d.; hydrobromide, 2s. 7½d.; dibydrobromide, 2s. 10½d.; valerianate, 3s. 7d.; hypophosphite, 3s. 10½d.; alkaloid, 2s. 11d. per oz., carriage paid on bulk quantities; 100-oz. tins, free; smaller packing extra.

SANTONIN.—Convention prices are maintained. A few "outside" parcels at slightly lower figures: not less than 50 kilos., £35 12s. 6d.; not less than 25 kilos., £36 1s.; not less than 10 kilos., £36 0s.; not less than 3 kilos., £36 17s.; not less than 1 kilo., £38 13s. 6d.; less than 1 kilo., £39 13s. 6d. Special prices are in operation for export to all markets.

SILVER NITRATE.—Makers' prices are as follows: 1 oz., 2s. 3d.; 2 to 24 oz., 2s. 1½d.; 24 to 49 oz., 2s. 0½d. per oz. Standard silver, 29d. per oz.

SODIUM SALICYLATE (B.P.).—Quoted steadily; business slow: home trade, crystals or powder, five cwt., 1s. 8½d.; one cwt., 1s. 9d.; 28 lb., 2s.; 14 lb., 2s. 2d.; 7 lb., 2s. 3d.; 1 lb., 2s. 6d. per lb.

SIRYCHNINE SALTS.—Makers' prices are steady:—

|                 | Under<br>16 ozs. | 16 ozs. | 35 ozs. |
|-----------------|------------------|---------|---------|
|                 | Per oz.          | Per oz. | Per oz. |
|                 | s. d.            | s. d.   | s. d.   |
| Alkaloid cryst. | 2 8½             | 2 7     | 2 6½    |
| Alkaloid powder | 2 7½             | 2 6     | 2 5½    |
| Bisulphate      | 2 2½             | 2 1     | 2 0½    |
| Hydrochloride   | 2 5½             | 2 4     | 2 3½    |
| Nitrate         | 2 3½             | 2 2     | 2 1½    |
| Sulphate cryst. | 2 4½             | 2 3     | 2 2½    |

25-oz. containers, free; 1-oz. bottles, 2½d.; 2-oz. bottles, 3½d. Other conditions as usual. Lower prices for bulk quantities. Wholesale distributors' prices for smaller quantities would be dearer.

SULPHONAL.—Fairly steady at dealers' prices; business small: crystals or powder, two cwt., 15s. 5½d.; one cwt., 15s. 10½d.; 56 lb., 16s. 1d.; smaller parcels, up to 16s. 7½d. per lb.

TARTARIC ACID (B.P. CRYSTALS).—Business on a good scale: British makers quote at 1s. 0½d. per lb., less 5 per cent. discount. Dealers offering foreign material at competitive prices.

### Crude Drugs, etc.

AGAR.—Shipment offers from Japan are very limited and at a further advance. It is reported that stocks are practically exhausted. On spot there has been a steady inquiry and holders' prices have moved up accordingly: spot, Kobe No. 1, 3s.; No. 2, 2s. 10½d.; Yokohama No. 1, 2s. 10½d.; shipment, Kobe No. 1, 2s. 8½d.; No. 2, 2s. 5½d.; Yokohama No. 1, 2s. 6d. per lb., c.i.f.

ALOES.—This market continues firm and prices, spot and shipment, are at an advance. Supplies are exceedingly limited. Cape, spot, nominal, practically nothing available; shipment, boxes, 46s.; cases, 50s. per cwt., c.i.f., for prime. Curaçao, spot, 92s. 6d. to 105s.; shipment, now up to 88s. per cwt., c.i.f.

ANTIMONY.—Chinese crude for shipment is quoted at £28, c.i.f. English regulus, £74 to £75, spot.

BALSAMS.—There is a firmer tone in Tolu, with the cheaper offers taken off the market. Spot now 1s. 5d. to 1s. 6d. This move is due to stronger shipment quotations. Canada, 2s. 10½d.; Peru, 5s. 3d. per lb., spot.

BELLADONNA.—Dealers are finding business slow. Leaves, 57s. 6d. per cwt., spot.

BUCHU.—Spot stocks continue to lessen and one source has limited their prices for rounds from 1s. 3½d. to 1s. 4d., as to quality. Ovals are very short and the price now asked is from 1s. 1d. upwards per lb.

CANIHARIDES.—Holders of supplies of Russian have brought their price down to 2s. 4½d. for small lots. Chinese, about 6s. 9d. per lb., spot.

CASCARA SAGRADA.—The shipment market, which has been firm for some time owing to limited supplies, is dearer from 34s. per cwt., c.i.f., with offers very restricted. Spot values have hardened. 1934 peel, 40s. to 42s. 6d.; 1933 peel, 47s. 6d.; 1932 peel, 52s. 6d. per cwt. Thursday: Cable received quoting 39s., c.i.f., with very little available.

CHAMOMILES.—The source is now offering freely, with the second picking available. New crop, to arrive, first pickings, about 150s.; second pickings, 135s. per cwt.

CLOVES.—Values are about maintained; market quiet: Zanzibar, spot, 7½d.; shipment, August-September, 6½d. per lb., c.i.f. Madagascar, in bond, 6d.; shipment, August-September, 5½d. per lb., c.i.f.

The landings of Zanzibar in London during the week ended August 24 were nil, and the deliveries 23, leaving a stock of 2,766. From January 1 to date the landings of Zanzibar have been 2,328 and the deliveries 2,656. Landings of Madagascar for the week ended August 24 were nil, and the deliveries 12, leaving a stock of 1,711. From January 1 to date landings of Madagascar have been 3,001 and the deliveries 1,534 packages.

COD-LIVER OIL.—Bergen reports continued activity on a moderate scale in the shipment market. Finest Lofoten steam-refined, non-freezing medicinal oil, 91s. per barrel, c.i.f. London; spot, in small lots, 134s. per barrel, ex store, duty paid. Newfoundland non-freezing medicinal oil, 130s. per barrel, ex store. British non-freezing medicinal oil is quoted at 110s. to 112s. 6d. per barrel, c.i.f. London, duty free, while quotations from another home source are at higher figures.

DAMIANA LEAVES.—Dealers continue to offer small parcels on spot at about 1s. per lb. Business slow.

DERRIS ROOT.—This market remains neglected, with quotations nominally unchanged at former rates.

ERGOT.—The position as regards supplies is acute. On spot the only thing offering is about 10 cwt. of Russian, for which 1s. 9d. is asked at the moment. Holders of very limited lots of Spanish and Portuguese have withdrawn from the market. The shipment position is very strong. There are practically no firm offers, with shippers suggesting the price may eventually be in the region of 3s., c.i.f. It is reported that a bid of 2s. 6d., c.i.f., was not accepted this week. Thursday: Portuguese cable advises practically nothing offering and suggesting not less than 3s. 3d., c.i.f., for any future business.

GENTIAN.—Spot supplies are offering at about 37s. 6d. for small parcels, with business unimportant. Less for bulk quantities.

GUM ACACIA.—This market is about steady; business quiet: spot, Kordofan cleaned sorts, 45s.; bleached, No. 1, 85s.; extra, 92s. 6d. per cwt.; shipment, Kordofan cleaned sorts, 42s. per cwt., c.i.f.

HENBANE.—Dealers offering spot in small lots at about 80s. per cwt. Business quiet.

HONEY.—A fair business continues and the market is steadier, with a good deal of Jamaican on spot now held for better prices. Jamaican, pale, 37s. 6d.; dark manufacturing, 27s. 6d. per cwt. Californian, smooth white, 47s. 6d., spot; shipment, 37s. 6d. per cwt., c.i.f.

HYDRASTIS.—Market has been quiet; values fully steady. Spot, 8s. 6d.; shipment, 8s. 3d. per lb., c.i.f.

IPPECACUANHA.—There has been some nice export business done and, with stocks depleted, the market is now fully steady: Matto Grosso, 4s. 10½d. to 5s. per cwt.; Minas, 4s. 3d. to 4s. 6d. per cwt., as to quantity, spot.

LAVENDER FLOWERS.—New crop blue flowers are reported very short this season and the price for good blue to arrive is up to 230s. per cwt., landed.

**MENTHOL.**—There has been an active demand for home trade and for export, and values have advanced sharply, the market closing firm. K/S brands, spot, 12s. 3d.; shipment, September-October, 11s.; October-December, 10s. 9d. per lb., c.i.f. sellers. Japanese shippers are quoting firmly at 11s. 3d. for September-October and 11s. for October-December.

**MERCURY.**—The Spanish-Italian group report their shipment price steady at 56 dollars, f.o.b. Continent, with a very good demand continuing: spot, in small lots, £11 6s. 6d. per bottle, ex store.

**PEPPER.**—Market continues dull. Lampung, 2½d., in bond; shipment, August-October, 2½d.; October-December, 2½d., c.i.f. Telli-cherry, spot, 4½d.; shipment, September-October, 4½d., c.i.f. Aleppy, spot, 4½d.; shipment, August-October, 4½d., c.i.f. White Muntok, 4½d., in bond; shipment, August-October, 4½d. per lb., c.i.f.

**PIMENTO.**—A further advance is recorded; market fully steady. Spot, 3½d. per lb.; shipment, September-October, 29s. 6d. per cwt., c.i.f.

**RHUBARB.**—There are odd parcels of flat medium round Shensi on spot from 3s. 9d. to 4s. Rough round, all pinky, 1s. 4d.; three-quarters pinky, 1s. 3d. per lb. A parcel of Canton will shortly be available on spot.

**RUBBER.**—Values improved early on and have since fallen back, closing level on the week. Standard ribbed smoked sheet, spot, 5½d.; September, 5½d.; October, 5½d.; October-December, 5½d.; January-March, 5½d.; April-June, 6d. per lb.

**SEEDS.**—**ANISE.**—Spot, duty paid, Spanish, 73s.; Bulgarian, 33s., sellers; for shipment, 27s. 3d. c.i.f. offered. **CANARY.**—Mazagan is quiet at 21s., sellers. Spanish is dearer, sellers now quoting for bold quality 32s. 6d. to 34s. 6d. **CARAWAY.**—Dutch in poor demand at 34s., spot, duty paid; 28s. 9d. quoted f.o.b. Holland. **CORIANDER.**—Market inclined to be a little firmer. Morocco, spot, 13s. to 13s. 6d., duty paid. New crop for shipment offered at 11s. 6d., c.i.f. **CUMIN.**—Morocco, 51s. spot, duty paid; 47s. 6d., in bond; new crop for shipment sold at 41s. 6d., c.i.f. **DILL.**—Indian, 11 per cent. now quoted at 15s. spot. **FENUGREEK.**—Tunisian, 14s., spot, and Morocco, 13s., duty paid, business done. New crop for shipment, 10s. 9d., c.i.f. **MUSTARD.**—English, 22s. to 32s. per cwt., according to quality.

**SENEGA.**—Business has been of small account. Shipment is now cabled up to 1s. 4½d., c.i.f. There are spot sellers at under this figure.

**SENNA.**—The market for all grades of Tinnevelly and Alexandrian is stronger, with much more interest being shown. There have been several good export inquiries. Some spot holders are restricting their offerings. New crop Tinnevelly leaves available on spot at 9d. for best bold selected. No. 1, 6½d.; No. 2, 4½d.; No. 3, 3½d. per lb. Hand-picked Tinnevelly pods quoted from 4½d. to 5d., as to quality; manufacturing, 2d. to 3d. Alexandrian hand-picked pods tend firmer at 2s. 6d. to 3s. 3d. for medium to good, with best No. 1 nominal, with nothing available.

**HELLAC.**—Market is keeping steadier: spot, standard TN orange, 50s. to 55s.; fine orange, 86s. to 145s.; pure button, 80s. to 95s. per cwt., spot. For delivery, TN, October, 50s. 6d.; December, 51s. For arrival, TN, September-October, 54s. per cwt., c.i.f.

**TRAGACANTH.**—With the exception of a fair demand for No. 3 whites, ranging from £17 10s. to £21 per cwt., business has been on the quiet side. Textile qualities range from 80s. to £8 and low grades from 60s. to 75s. per cwt., ex store, London.

**WAX.**—**BEES'.**—Market has been rather quiet. Abyssinian, spot, 110s.; shipment, 96s., c.i.f. Benguella, in bond, 112s. 6d.; shipment, 97s. 6d., c.i.f. Conakry, spot, 112s. 6d., shipment, 96s. 6d., c.i.f. Dar-es-Salaam, spot, 110s.; shipment, 103s. 6d., c.i.f. **CARNAUBA.**—Market continues firm with good inquiry continuing. Fatty grey, spot, 175s.; shipment, October-December, 165s., c.i.f. Chalky grey, spot, 170s.; shipment, October-December, 165s.; Primeira, yellow spot, 215s.; shipment, 200s., c.i.f.

#### Essential Oils, etc.

THE outstanding item in the markets this week has been the further sharp advance in Japanese peppermint, with heavy business transacted. Sicilian hand-pressed lemon has slackened in demand and values are not so firm. Business generally has been fair and mostly for spot goods.

**ALMOND.**—Small average spot business; prices maintained: English-made, cwt. lots, 2s. 6d.; smaller parcels, up to 2s. 8d. per lb.; foreign, cwt. lots, 2s. 4d.; smaller parcels, 2s. 7d. per lb. French, bitter, 8s. 9d. per lb.

**ANISE (STAR).**—The shipment market is rather steadier, but business is lacking. Values generally unchanged: spot, leads, 2s. 4d.; tins, 2s. 2½d.; drums, 2s. 2d. per lb., ex store; shipment, leads, 1s. 10½d.; tins, 1s. 8d.; drums, 1s. 7½d. per lb., c.i.f.

**BAY.**—Occasional spot business; market steady: 49 to 50 per cent. 5s. 1½d. to 5s. 4½d. per lb., as to quantity.

**BERGAMOT.**—The shipment market is cabled slightly better and orders sent out at former rates have been refused. Now quoted, as to brand, 5s. 6d. up to as much as 6s., c.i.f., in one instance. Spot is about unchanged and quiet at 5s. 2d. to 5s. 8d. per lb., as to brand and quantity.

**BOIS DE ROSE.**—A few inquiries but generally the market is flat. Brazilian, spot, 5s. 9d.; shipment, 5s. 6d. per lb., c.i.f. Cayenne, 10s. 3d., c.i.f.

**CAJUPUT.**—Due to easier shipment conditions spot is quoted slightly cheaper: B.P., 2s. to 2s. 2d. per lb.; green, 1s. 8d. to 1s. 10d. per lb., as to quantity.

**CANANGA.**—There are spot sellers in the region of 14s. per lb. for small parcels; shipment is now a little more freely offered, working out at about 10s. 4½d. per lb., c.i.f.

**CARAWAY.**—Not much inquiry, but the market is steady: Dutch rectified, 10s.; crude, 9s. 6d. per lb., landed, and duty paid.

**CASSIA.**—Anything left on spot would be worth about 5s. 4½d. to 5s. 6d., but buyers are unwilling to pay this figure with shipment standing at not more than 3s. 10½d., c.i.f. The possible removal of the duty is no doubt interfering with arrivals, for there seems to be little if any on the way and due here before October.

**CEDARWOOD.**—Moderate inquiry, with the market steady. American and African, 1s. 2d. for drums and up to 1s. 4½d. for small parcels.

**CINNAMON LEAF.**—The recent better tone here is being maintained. Ceylon oil, spot, drums, 2s. 6d.; smaller packings, 2s. 8d.; shipment, 2s. 2½d. per lb., c.i.f.

**CIIRONELLA.**—This market remains dull and the tone is by no means healthy: Ceylon, spot, drums, 1s. 1d.; smaller parcels, 1s. 3d. to 1s. 4d.; shipment, drums, about 10d. per lb., c.i.f. Java, spot, drums, 1s. 2d.; smaller parcels, 1s. 3½d. to 1s. 5d.; shipment, drums, 1s. to 1s. 10d. per lb., c.i.f.

**CLOVE.**—Market is steady; business restricted: Madagascar, spot, drums, 3s. 2d.; smaller packings, up to 3s. 6d. per lb.; shipment, 2s. 6d. per lb., c.i.f.

**EUCALYPTUS.**—A fair business is reported, with prices steady: Australian, 70 to 75 per cent., 1s.; 80 to 85 per cent., 1s. 1d. per lb., landed; higher prices for small lots on spot. Spanish, 70 to 75 per cent., 1s. 2d. per lb., ex store.

**GERANIUM.**—Business has been of small account and forward quotations continue rather irregular: Bourbon, spot, 22s.; shipment, 20s., c.i.f. Algerian, spot, 21s. 6d.; shipment, 19s. 9d. per lb., c.i.f., appear to be average prices.

**GINGERGRASS.**—Slow on spot, with holders asking about 5s. 4½d. to 5s. 6d.; shipment, about 4s. 4½d. per lb., c.i.f.

**HO (SHRU).**—Average business at former figures. Spot, from 1s. 9d. to 2s. 1d. per lb., as to quality and quantity.

**JUNIPER BERRY.**—Dealers report some small business, with good quality oil at 3s. 3d. and the finest up to 4s. 6d. per lb., spot.

**LAVENDER.**—New crop prices for 38 to 40 per cent. Mt. Blanc are still not available, but according to advices received from important distillers prices are likely to be on a substantially higher level and the crop is a small one. It has been indicated that genuine Mt. Blanc oil may work out at not less than 250 francs, and may even reach 300 francs. Definite quotations are promised at an early date.

**LEMON.**—The shipment market for Sicilian hand-pressed has certainly not been over-burdened with orders, and quotations seem hardly to have maintained their recent high figures. At the moment a review of offers from first-hand suppliers reveals prices ranging from 6s. 4½d. to 6s. 9d. per lb., c.i.f. Reliable sources are unwilling to quote for the new crop for January shipment in view of the unsettled political situation in Italy. The demand on spot has been no more than ordinary, with sellers from 5s. 6d. to 5s. 9d. per lb., as to brand and quantity. Californian is steady on spot: large drums, 3s. 10d.; small drums, 3s. 1d. per lb.

**LEMONGRASS.**—Market has remained flat. Shipment offers are not more than 2s., c.i.f., for a quantity. Spot, where available, about 2s. 6d. per lb.

**LIME.**—The spot price for small lots of West Indian distilled is steady from 2s. per lb.; shipment tends to be firm at rather higher figures.

**NEROLI.**—Very little doing in new crop, with quotations from 13s. to 18s. 9d. per oz., landed and duty paid. Consumers apparently delaying their business pending result of application for exemption from duty, which was lodged last April.

**NUTMEG.**—Average spot business; market keen. American and English, 5s. 1½d. to 5s. 4½d. per lb., as to quantity.

**ORANGE.**—There has been but very ordinary business on spot and shipment markets are more or less slack. French Guinea, spot, drums, 3s. to 3s. 1d.; smaller packings, up to 3s. 6d.; shipment, flat, 2s. 9d., c.i.f., for quantities. Californian is steady but in quieter demand. Spot, one case, 2s. 6½d.; two or more cases, 2s. 4d.; drums, 2s. 3d. per lb. Sicilian, sweet, spot, 10s. 6d.; shipment, 10s. per lb., c.i.f.

**PALMAROSA.**—Market is dull and a shade easier. Spot, about 6s. 6d.; shipment is now at 6s. per lb., c.i.f.

**PATCHOULI.**—On spot Singapore oil is quoted in the region of 10s. 6d. to 10s. 9d. per lb. Seychelles, for shipment, 6s. 4½d. per lb., c.i.f., for quantities.

**PEPPERMINT.**—Quite substantial business during the past week, from both speculators and consumers. With the further sharp appreciation in Japanese shippers' quotations the market is now very

strong and tending to go still higher. Authentic reports from the source state both crops are about 25 per cent. short of normal. On spot, due to the considerable demand, supplies are now limited and at the moment prices asked by holders are close up to 4s. 6d. and seem likely to pass that figure. Japanese shippers quote August-September at 4s. 5d. and October-December at 4s. 5d. per lb., c.i.f. There may be an odd seller or two at slightly less at the moment. The American natural oil continues at low values, with but little interest shown. Shipment offers now range from 1 dollar 95 cents up to 2.20 per lb., in drums, c.i.f., as to brand. It is reported that the new crop oil is low in menthol content at between 40 to 45 per cent., against 50 per cent. usually.

**PETITGRAIN.**—Market about steady; business modest. Spot, 4s. 1d. to 4s. 3d.; shipment, about 3s. 6d. per lb., c.i.f.

**ROSEMARY.**—A little more inquiry. Spot, first quality, 2s. 1d.; second quality, 1s. 9d. per lb.

**SANDALWOOD.**—Genuine East Indian Mysore, 19s. per lb., in one-case lots, on spot; isolated cheaper offers noted. English-made East Indian, 22s. 6d. to 25s. per lb., as to quantity. English-made West Indian, cwt. lots, 6s. 9d.; 56 lb., 6s. 10d.; 14 lb., 7s. per lb. Australian, case lots, 15s. 3d. per lb.

**SASSAFRAS.**—Not much inquiry. Natural, 4s. to 4s. 3d. per lb. Artificial at cheaper prices.

**PEARMINT.**—The shipment market is firm and dearer at 8s. 3d., c.i.f., with a definite crop shortage reported. Most spot sellers of good brands are now asking 9s. per lb.

**SPIKE.**—Last week there was a cheap shipper at under 4s., c.i.f., for a quantity, but these offers have been withdrawn. For first-class Spanish oil the prices, landed and duty paid, works out at close up to 5s. per lb. An application for free import has been under consideration since April last. The delay in giving a decision is impeding the market.

**VETIVERT.**—Spot holders of Bourbon are asking close up to 40s., with shipment quoted at 35s. per lb., c.i.f.

**WORMSEED.**—Values keeping steady; business quiet. Spot, 9s. 6d.; shipment, 8s. 6d. per lb., c.i.f.

The following are current prices for synthetics, etc.—**ACETOPHENONE**, 6s. to 6s. 4d. per lb.; **AMYL ACETATE**, pure, 12s. 6d. per cwt.; technical, 10s. 6d.; **AMYL SALICYLATE**, 2s. 2d. per lb. for cwt. lots up to 2s. 6d.; **AUBEPINE**, ex para creosole, 8s. to 8s. 6d. per lb.; **BENZALDEHYDE**, f.f.c., 2s. 2d. to 2s. 4d. per lb.; **BENZYL ACETATE**, 1s. 3d. to 1s. 8d. per lb.; **BENZYL ALCOHOL**, cwt. lots, 1s. 11d. up to 2s. 3d. per lb. for small lots; **BROMSTYROL**, 100 per cent., 9s. 6d. to 11s. per lb.; **BUTYRIC ACID**, 3s. 3d. to 3s. 6d. per lb.; **CITRAL**, chemically pure, steady at 7s. 9d. to 8s. 3d. per lb.; **COUMARIN**, 7s. 3d. to 8s. per lb.; **ETHYL PHthalATE** is steady at 1s. 4d. to 1s. 9d. per lb.; **EUGENOL**, 7s. 6d. to 8s. per lb.; **GERANIOL**, ex palmarosa, 15s. to 17s. per lb.; **HELIOTROPINE**, 100 per cent. crystals, 6s. 9d. per lb., as to quantity; **ISO EUGENOL**, 9s. 6d. to 10s. per lb. **METHYL ANTHRANILATE**, 6s. 6d. to 6s. 9d. per lb. **MIRBANE** is quoted at 7d. to 8d. per lb.; **MUSK, KETONE**, 10s.; **AMBRETTOL**, 18s.; **XYLOL**, 4s. 6d. per lb.; **TERPINOL**, 1s. 4d. for ton lots up to 1s. 9d. per lb. for small parcels.

### Fixed Oils, etc.

BUSINESS has been moving on a good scale in most of these products. Groundnut, palm, cotton and coconut are bright features. Linseed is steadier and American turpentine is dull. Acid oils.—Fair business; market steady: coconut and/or palm kernel, nominal, nothing offering; groundnut, 18s. 6d.; soya, 15s. 3d., spot. **CASTOR.**—The market is steady; business quieter: pharmaceutical, 44s.; first pressings, 39s.; second pressings, 37s. (barrels), cases £4 per ton extra, ex mills, Hull, in not less than one-ton lots; Bombay, 31s. 3d. (drums), c.i.f. **COCONUT.**—Market is fully steady; business fairly good: deodorised, 28s. 3d. (barrels), spot; Ceylon, 18s. 9d. (drums), c.i.f. **COTTON.**—A very fair business and the market is steady: deodorised, 32s.; common edible, 30s.; soapmaking, 27s.; crude, 26s. 6d. (barrels), spot. **GROUNDNUT.**—Market is firm; good demand: deodorised, 24s. 6d. (barrels), spot; crude Oriental, 30s. 3d. (drums), c.i.f. **LINSEED (RAW, NAKED).**—Market has been quieter, closing steadier: spot, 24s. 6d., for small quantities; September, 21s. 9d.; September-December, 22s.; January-April, 22s. 3d. per cwt. Boiled oil, spot, 26s. per cwt. **OLIVE.**—Market firm; average business: edible, in tins in cases, 70s. to 72s. per case of ten gallons; B.P., 5s. 3d. per gallon, in 40-gallon barrels. **PALM.**—At the better values the market is steady and business has been fairly active: Lagos, 19s. 3d., shipment; softs, 10s. 1d., shipment; mediums, 19s. 3d., shipment; hards, 20s., shipment; bleached, 23s., spot. **PALM KERNEL.**—Market is fairly active and closes fully steady: deodorised, 25s. 6d.; crude, 21s. 3d., spot (barrels). **RAPE.**—Market has remained quiet: refined, 35s. 3d.; crude, 33s. 6d., spot (barrels). **RESIN.**—Values are slightly lower; market dull: B, 10s. 9d.; D, 11s. 3d.; F/G, 12s.; N, 13s.; W/G, 13s. 6d.; W/W, 14s. 6d. per cwt., ex wharf. **SOYA.**—The better values are steadily maintained; moderate business: deodorised, 30s. 6d.; crude, 28s. 6d., spot (barrels). **TURPENTINE (AMERICAN).**—Market is steadier with values slightly better: total London stocks, 6,691 barrels. On spot, 43s. 9d. **WOOD.**—The spot value of Hankow in barrels is fairly steady at 8s. 6d.; September, 8s. per cwt.

## Commercial Notes

**INEIAN OIL-SEEDS EXPORTS.**—Shipments during the past three seasons were as follows:—

|                        | Pre-war average | 1931-32 | 1932-33 | 1933-34 |
|------------------------|-----------------|---------|---------|---------|
| (Thousands of tons)    |                 |         |         |         |
| Linseed ... ... ...    | 379             | 120     | 72      | 379     |
| Rapeseed ... ... ...   | 273             | 54      | 115     | 73      |
| Groundnuts ... ... ... | 212             | 672     | 433     | 547     |
| Castor ... ... ...     | 114             | 104     | 86      | 82      |
| Cotton ... ... ...     | 240             | 12      | 2       | 6       |
| Sesamum ... ... ...    | 119             | 12      | 10      | 15      |
| Copra ... ... ...      | 31              | —       | —       | —       |
| Others ... ... ...     | 85              | 14      | 15      | 22      |
| Total ... ... ...      | 1,453           | 988     | 733     | 1,124   |

**TAIWAN CAMPHOR EXPORTS, 1934.**—Shipments totalled 2,689,533 lb., compared with 3,873,109 lb. in 1933 and 2,068,395 lb. in 1932. The chief destinations were as follows:—

| Country             | 1932      |           | 1933      |           | 1934      |           |
|---------------------|-----------|-----------|-----------|-----------|-----------|-----------|
|                     | Lb.       | Yen       | Lb.       | Yen       | Lb.       | Yen       |
| United States ...   | 1,485,729 | 1,111,770 | 3,154,058 | 2,329,636 | 2,307,576 | 1,980,621 |
| France ...          | 317,388   | 237,501   | 480,778   | 411,613   | 193,819   | 193,200   |
| Great Britain ...   | 265,261   | 198,495   | 233,642   | 216,788   | 163,390   | 177,950   |
| Italy ...           | —         | —         | 4,630     | 4,690     | 22,491    | 27,455    |
| Other Countries ... | 17        | 17        | 1         | —         | 2,257     | 2,730     |

**U.S. ESSENTIAL OIL TRADE.**—A slight total increase of essential oil imports into U.S.A. and a marked rise in exports (spearmint excepted) over the corresponding period in 1934 occurred in the first four months of 1935, as indicated by the tables below:—

|                               | IMPORTS       |          | EXPORTS     |          |
|-------------------------------|---------------|----------|-------------|----------|
|                               | 1934          |          | 1935        |          |
|                               | Weight        | Value    | Weight      | Value    |
| Cassia and Cinnamon ...       | 111,000 lb.   | £16,400  | 149,000 lb. | £22,000  |
| Geranium ...                  | 35,000 lb.    | £31,400  | 39,000 lb.  | £35,200  |
| Otto of Rose ...              | 8,000 oz.     | £13,000  | 17,000 oz.  | £20,800  |
| Bergamot ...                  | 27,000 lb.    | £8,000   | 33,000 lb.  | £8,600   |
| Citronella and Lemongrass ... | 592,000 lb.   | £43,800  | 862,000 lb. | £48,400  |
| Lavender and Spike ...        | 94,000 lb.    | £43,800  | 61,000 lb.  | £33,200  |
| Lemon ...                     | 86,000 lb.    | £12,800  | 51,000 lb.  | £8,000   |
| Orange ...                    | 46,000 lb.    | £7,200   | 61,000 lb.  | £11,800  |
| Sandalwood ...                | —             | £200     | 1,000 lb.   | £400     |
| Lime ...                      | 16,000 lb.    | £17,800  | 18,000 lb.  | £20,200  |
| Others ...                    | 1,044,000 lb. | £94,600  | 938,000 lb. | £87,800  |
|                               |               | £286,200 |             | £296,400 |

|                 | EXPORTS    |         | IMPORTS    |         |
|-----------------|------------|---------|------------|---------|
|                 | 1934       |         | 1935       |         |
|                 | Weight     | Value   | Weight     | Value   |
| Citrus oils ... | 31,000 lb. | £5,000  | 82,000 lb. | £11,600 |
| Peppermint ...  | 80,000 lb. | £49,200 | 82,000 lb. | £50,200 |
| Spearmint ...   | 24,000 lb. | £6,200  | 6,000 lb.  | £2,400  |

**BORAX PRODUCTION IN ARGENTINA.**—The "Frankfurter Zeitung" states that a committee of investigation has been appointed to deal with the policy of the international borax trust. Another source reports that a mining company, under the title of the Borateras Argentinas, S.A., was formed in Buenos Aires at the beginning of August with a share capital of 2,000,000 pesos for the working of the deposits of borax in the north of the country. The company has acquired the concession with all the plant and equipment of the mines and mining rights in the Province of Salta, near the Salinas Grandes, the property extending over a superficial area of 25,000 acres, and which is estimated to contain 2,500,000 tons of crude borax. Production has been in course for a long time past on a part of the property and quantities of borax are said to have already been sold in Argentina and Europe. An inquiry commission which recently paid a visit to Europe is stated to have ascertained that comparatively large exports are to be expected, especially when a calcinating installation for the crude borax for the removal of the superfluous moisture has been erected.

# Correspondence

Letters should be written on one side of the paper only. Correspondents may adopt an assumed name, but must in all cases furnish their real name and address to the Editor

## A Day in Basle

SIR.—I can fully endorse the desirability stressed by "Pharmatoura" (C. & D., August 24, p. 256) of breaking one's journey to or from Switzerland at this fine city, "one of the cleanest and best kept in Europe." In addition to the interest of the University, so well described in his article, the town offers many other attractions. There is the rushing Rhine crossed by four handsome bridges, as well as by a ferry (worked by the current). There are two museums and a picture gallery; there are the old Town Hall and the Market; there are the Botanical Garden attached to the University and the Zoological Gardens situated in a beautiful park—the only zoo in Switzerland. Finally there is a good choice of hotels—from the historic "Three Kings" with a terrace on the river to modest houses like the Bristol (my own choice) opposite the station. British pharmacists may be interested to learn that their colleagues in Basle take it in turn to open all day on Sundays. A rota is printed and hung on all the shop doors. I discovered this custom, to my cost, on my last visit. Needing medicine for a sick friend, I made my way to a pharmacy near by—to find it closed. Studying the rota I learnt that the one open for the day was more than a mile away. I arrived there just after midday to find it closed for "Mittagessen" until 1.30.—Yours truly,

C. S. ASHTON.

Brighton.

## "Impressions from England"

SIR.—The two Danish students from whose articles on "Impressions from England" you reprint translated passages (C. & D., August 24, p. 254) point out the fundamental difference between English and Continental pharmaceutical practice when they say that Danish chemists are authorised dealers in medicines, while English chemists are authorised dealers in poisons. When the original founders of the Pharmaceutical Society applied for a charter they had no idea of assuming responsibility for carrying out the poisons laws; this duty was thrust on pharmacists afterwards, but after many years the position has been stabilised under the new Act by conferring on chemists the special title of "authorised sellers of poisons." There are one or two points our visitors from Denmark make which are not quite clear, or else they have not gained a correct idea of the position. For instance, they refer to doctors who have passed a special test in pharmacy ("the so-called apothecaries") who are allowed to sell medicines to their patients; they do not seem to be aware that all doctors in England can supply medicine or anything else to their patients if they choose. They also differentiate between 12,500 chemists and about 20,000 "registered pharmacists," i.e., pharmacists with the right to practise. To what class do they apply the designation "chemist" when making this distinction? But they have evidently obtained a very correct impression of the little "dispensing chemist" and the one-man shop, for they give us a picture of some premises which we can easily recognise as being familiar in almost any district. But one can assure them that the English pharmacist deplores the crowded condition of shop and window, but is compelled to turn his pharmacy into a general store for the reason they commented upon, that he has no legal status as an authorised seller of medicine. One thing which appears to have struck our visitors is the use of glass measures for liquids; on the Continent the dispensing of liquids is done by weight. Having had experience of both systems I am bound to say that in this instance I consider our English method the best and most convenient for working. Not all chemists in this country send their prescriptions to a wholesale house to be dispensed; I admit that there are a few chemists who will not trouble to dispense a tiresome script, but I think they are the exception rather than the rule. Tablet-making machines are seldom seen in pharmacies here because we have no occasion to use them, the tablets which are prescribed being usually to a stock formula. The authors seem to me to think that the taxing of proprietaries, or as we should say stamping patent medicines, is beneficial to the chemist; they

have not apparently been informed of the practice of destamping and its evasion of the tax by making use of a concession which was intended for pharmacists only. While it is true that our system of unlimited opening of chemists' shops leads to over-crowding and keen competition, it does at any rate give a young pharmacist some chance of making good for himself. Our two friends are to be congratulated on the comprehensive way in which they took stock of English pharmacy as a whole, and we should be grateful to them for their account.

Faithfully yours,

TRAVELED (26/8).

## An Advertisement Committee

SIR.—In common with many traders' organisations throughout the country, the Gravesend Chamber of Trade instituted several months ago an Advertisement Vigilance Committee, the function of which is to examine all advertising propositions referred to it by members, and, where it is satisfied that such propositions are reasonable and propounded by *bona-fide* firms, to give the canvasser a certificate to that effect. . . . Our experience since our Advertisement Vigilance Committee has operated has convinced us that there is an imperative need for revision of the agreement forms used even by some reputable printers and publicity services. Too often these are explicit only in so far as they ensure payment to the publisher, while they contain no statement whatever of the circulation of the advertising medium, or of the date of publication. Particularly is this the case where distribution of the medium is in the hands of a third party. . . . This Chamber has decided in future to guard against this danger by issuing two classes of certificate, an "A" certificate, where both proposition and agreement are fair and reasonable, and a "B" certificate, where there is some aspect of the proposition, or of the contract, to which the advertiser's attention should be specially drawn before he commits himself. The object of this letter is to bring the whole matter to the attention of the trading community, in the hope that the pressure of opinion will compel reform, and also to suggest to traders' organisations which have at present no such scheme as the one outlined above that it might be worth their while to consider putting one into operation.—Yours faithfully,

CHAS. D. RANT,

Hon. Secretary, Gravesend and District Chamber of Trade.

## Queer Customers

SIR.—If a collection of all the curious incidents in a chemist's daily life could be arranged in book form it would make very humorous reading; and "Northern Scot" gives us a fair quota in his "Queer Customers" (C. & D., August 24, p. 249). We are all familiar with the customer who expects free use of the telephone; my best example of this was a young lady in a provincial town who, on being shown the instrument, rang up another chemist and asked him to send a bottle of "father's medicine." Another customer, a man, bought a catheter and a week later brought it back with a request that I should refund the money, as a friend had lent him one. Another lady was distinctly annoyed when I refused to attend at her house three times daily to administer the correct dose of medicine to her husband, who had the idea that the members of his family were not measuring it accurately. The customer who puts a clinical thermometer near the fire or into boiling water "because it will not work" is almost a regular arrival, but if the bulb has not broken the procedure can be discovered by noticing that the mercury column is right up to the top of the tube. Photographic customers often provide amusing episodes through their ignorance of the elementary details of the art—for instance, the customer who opens the camera in bright sunlight to see if there are any pictures on the film. But some of them are trials as well, and one learns to beware of the customer who looks at the results and finding them not very successful puts the whole lot down on the counter and walks out, flatly refusing to pay for the work done.—Yours truly,

QUEERER (27/8).

## Miscellaneous Inquiries

When samples are sent particulars should be supplied to us as to their origin, what they are used for and how. We do not undertake to analyse and report upon proprietary articles nor to publish supposed formulas for them.

*H. K. W.* (13/76).—**STUPEFYING FISH.**—The preparation used for stupefying fish is *coccus indicus*.

*E. P.* (13/77).—**TONIC WATER.**—This is usually an aerated water containing 1 gr. of quinine to the pint.

*W. G.* (20/88).—**SLUG POWDER.**—This is a dark blue powder, containing a considerable proportion of arsenic, partly at least in the form of soluble sodium salt, together with barium sulphate; there is also some lead salt. The colouring appears to be ultramarine.

*T. & M.* (12/83).—**SCHULZE'S SOLUTION.**—Schulze's chlor-zinc-iodine reagent for cellulose is prepared by dissolving 110 gm. of zinc in 300 c.c. of pure hydrochloric acid and evaporating to 150 c.c. (s.g. about 1.8). Dissolve separately 12 gm. potassium iodide in as little water as possible; add 0.15 gm. iodine. Mix the solutions and filter if necessary through asbestos.

*M. L. L.* (13/5).—**SEPTIC CORN DRESSING.**—This is stated to be "used as a dressing for septic corns or septic wounds and for bone inflammation in cases of bunions. For septic corns it is applied on cotton-wool, bandaged and finally damped with water. For bone inflammation it is well rubbed in to the affected area, a kind of ointment appearing on the skin which disappears on further massage." It is a dilute spirituous solution of soft soap (say 6 per cent.). It appears to contain a trace of pyridine, suggestive of its having been made with spirit denatured therewith. A slight trace of tin is present.

*T. M.* (17/7).—**ointment for boils.**—This is a red oxide of mercury ointment.

*H. C.* (14/88).—**CHEAP COUGH MIXTURE.**—The following recipe appears to meet your requirements regarding a cheap cough mixture:—

|               |     |     |     |         |      |
|---------------|-----|-----|-----|---------|------|
| Succi solazzi | ... | ... | ... | ...     | 3ij. |
| Aquaæ         | ... | ... | ... | ...     | 1ij. |
| Sacchari      | ... | ... | ... | lb. ij. |      |
| Ol. anisi     | ... | ... | ... | ...     | 3ss. |

Dose: Adults, two teaspoonsfuls; children, half to one teaspoonful, according to age.

As under certain conditions this cough mixture might have a tendency to ferment, chloroform water should be substituted for some of the plain water.

*T. W.* (9/88).—**HAIR RESTORER.**—The following recipes are given in "Pharmaceutical Formulas," Vol. II:—

| Hair Restorer for Dogs  |     |     |     |          |  |
|-------------------------|-----|-----|-----|----------|--|
| Tincture of cantharidin | ... | ... | ... | 2 dr.    |  |
| Almond oil              | ... | ... | ... | 1 oz.    |  |
| Glycerin                | ... | ... | ... | 1 oz.    |  |
| Lime water              | ... | ... | ... | to 4 oz. |  |

Dress the skin where the hair is thin daily with this lotion.

| Hair Restorer for Men |     |     |     |               |  |
|-----------------------|-----|-----|-----|---------------|--|
| Lead acetate          | ... | ... | ... | 30 parts      |  |
| Precipitated sulphur  | ... | ... | ... | 25 parts      |  |
| Beef marrow           | ... | ... | ... | 100 parts     |  |
| Olive oil             | ... | ... | ... | 180 parts     |  |
| Soft paraffin         | ... | ... | ... | 450 parts     |  |
| Benzoated lard        | ... | ... | ... | 175 parts     |  |
| Beeswax               | ... | ... | ... | 25 parts      |  |
| Perfume               | ... | ... | ... | a sufficiency |  |

*A. D.* (3/78).—**WATERPROOFING TWILL.**—The Willesden process to which you refer consists essentially of the preparation of a concentrated solution of cuprammonium hydroxide and the passing of the goods to be treated through a bath of this material at such a rate as will permit of the pectising and gelatinising of the exterior of the fibres composing the paper or canvas. A cuprammonium bath which may meet your customer's requirements could be made as follows:—Salts of copper, e.g., sulphate, usually combine with four proportions of ammonia. The proofing process is as follows:—Place the article in a bath of ammoniacal cupric sulphate of 10° Bé, at a temperature of 87° F.; steep thoroughly, then put in a bath of caustic soda (20° Bé.) and dry. To increase the impermeability, a bath of aluminium sulphate may be substituted for the caustic soda bath.

*J. N.* (9/78).—**INSECTICIDE FOR EELWORM.**—Eelworm is difficult to destroy, the usual method being by sterilisation of the soil and bulbs. Powdered naphthalene is reported to have been used with a certain amount of success.

*B. T. C.* (13/83).—**WORMS IN WOOD.**—All wood before treatment must be thoroughly dusted and the insecticide carefully applied, particular care being taken that no crevices or joints are overlooked. The control of the worms is largely dependent on the thoroughness with which the insecticide is applied and can best be secured by periodic treatment. A suitable insecticide is as follows:—

|                 |     |     |     |              |
|-----------------|-----|-----|-----|--------------|
| Dichlorobenzene | ... | ... | ... | 50 per cent. |
| Mineral oil     | ... | ... | ... | 47 per cent. |
| Barium oleate   | ... | ... | ... | 3 per cent.  |

*H. B. T.* (6/83).—**AQUARIUM WATER.**—Formulas for salts for making aquarium water are as follows:—

|                    |     |     |     |        |
|--------------------|-----|-----|-----|--------|
| I                  |     |     |     |        |
| Calcium chloride   | ... | ... | ... | 3 gm.  |
| Calcium sulphate   | ... | ... | ... | 3 gm.  |
| Magnesium sulphate | ... | ... | ... | 5 gm.  |
| Magnesium chloride | ... | ... | ... | 11 gm. |
| Sodium chloride    | ... | ... | ... | 78 gm. |

For 30 litres of water use 1 kg. of the above mixture of salts.

### II

In 3,000 litres of water dissolve:—

|                    |     |     |     |        |
|--------------------|-----|-----|-----|--------|
| II                 |     |     |     |        |
| Calcium sulphate   | ... | ... | ... | 3 kg.  |
| Magnesium sulphate | ... | ... | ... | 5 kg.  |
| Potassium chloride | ... | ... | ... | 3 kg.  |
| Magnesium chloride | ... | ... | ... | 11 kg. |
| Sodium chloride    | ... | ... | ... | 78 kg. |

*S. R.* (26/8).—**LOTIO PLUMBI EVAPORANS.**—Failing any instruction to the contrary, the B.P.C. formula would be followed, and the pricing, by the C. & D. costing method, would be carried out thus:—

|   |     |     |     |      |      |
|---|-----|-----|-----|------|------|
| Liq. plumbi subacet. fort.                | ... | ... | ... | 2ij. | 1d.  |
| Spt. vini [Indust. meth., see note below] | ... | ... | ... | 5iv. | 2d.  |
| Aq. dest.                                 | ... | ... | ... | ad   | 3xx. |
| Container                                 | ... | ... | ... |      | 4d.  |
| Oncost...                                 | ... | ... | ... |      | 8d.  |
| Charge rs. 7d.                            | ... | ... | ... |      | 19d. |

Industrial methylated spirit is specifically permitted to be used for this preparation under the Methylated Spirit (Amendment) Regulations, 1934. If rectified spirit were used, the cost for that ingredient would be 7s. instead of 2d.; bringing the total cost for the prescription to 8s. 5d. It may be pointed out that other formulas exist having the same title, e.g., St. Thomas's Hospital, the Royal Ophthalmic Hospital, and Squire's formula.

## Retrospect of Fifty Years Ago

Reprinted from  
"The Chemist and Druggist," August 15, 1885

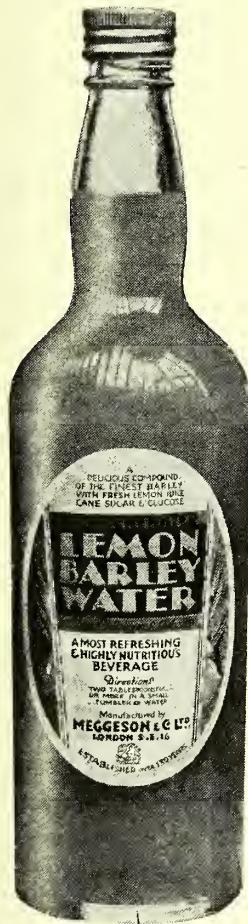
### Willow Boxes

The willow boxes now supplied by sundrymen are inferior beyond comparison to those of twenty years ago, for the simple reason that then we had British, now German or Norwegian. I have been using home-made boxes for some time; the difference is surprising. The German are thin, sides rough and wavy, the insides, and sometimes outsides, of lids and bottoms cross-grained and splintered, large pieces adhering to the contents when the top is removed, badly put together, only half-glued, at once giving way to a stiff ointment, with neither shape nor make nor anything else to recommend them. The English-made are twice as thick in substance, perfectly smooth inside and outside, and well polished; the flats are cut with the grain, quite free from splinters, well and strongly made, holding water better than the German hold honey. The lids are a perfect fit, and altogether they are much superior and more sightly. [From a letter to the Editor.]



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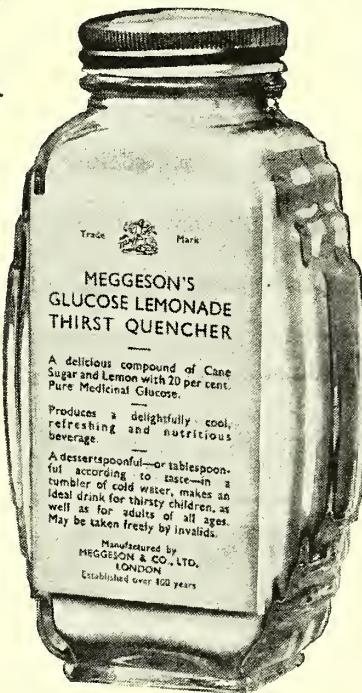
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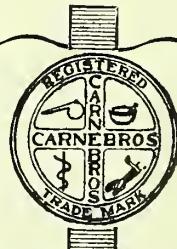
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HEPATIC STIMULANT

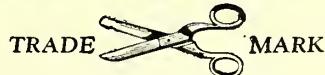
A product of 25 years' reputation in the United States  
for which an extensive propaganda will be conducted  
with the Medical Profession in this country.

|                   | Retail | Wholesale per doz. |
|-------------------|--------|--------------------|
| Bottles of 2½ oz. | 1/6    | 13/6               |
| " " 6 oz.         | 3/-    | 27/-               |
| " " 16 oz.        | 6/-    | 54/-               |

Your co-operation in promptly obtaining supplies when required will be appreciated  
Telephone: Holb. 6011. Telegrams: Ampsalvas, London

THE ANGLO-FRENCH DRUG CO., LTD.  
11-12 Guilford Street, London, W.C.1

## PERRY'S POWDERS



GIVE A GOOD RETURN  
NICE TO HANDLE—EASY TO SELL  
Wholesale from PERRY'S POWDERS, Ltd., LEEDS

Customers will be Asking  
for this Skin Ointment!

**WHITE TAR**  
*Brand Ointment (Regd.)*  
FOR ALL SKIN TROUBLES

Stocked by the leading Wholesalers. Sold in Tins 1/-, 2/- and 5/-.  
Supplies can be forwarded direct per return (post free) and charged through usual wholesalers.

A NATIONALLY ADVERTISED PRODUCT

TILLOTT'S LABORATORIES, 70 MARSHAM ST., WESTMINSTER, S.W.1

# Paraffinum Liquidum B.P.

ALL  
GRADES  
SAMPLES & PRICES  
On application  
to

**Sterns Ltd.**  
16, Finsbury Sq., London, E.C.2

Telephone: National 7644 (7 lines).  
Telegrams: Centumvir, Phone, London.

ALSO  
TECHNICAL  
QUALITIES

# "CLARKES"

Brand  
World-famed Blood-purifying Medicine

# "BLOOD MIXTURE"

Registered Trade Mark

UNSTAMPED, FOR SALE BY CHEMISTS ONLY

### P.A.T.A. PRICES

"CLARKES" Brand BLOOD MIXTURE  
(Liquid and Tablets)

Retail 3/-, 3 doz. lots £4 - 4 - 0 less 3 3/4% one month  
12 " " £16 - 16 - 0 " 8 3/4% " "  
CARRIAGE PAID PACKING FREE

### ASSORTED ORDERS

|                           | Retail       | Per Doz. |
|---------------------------|--------------|----------|
| "BLOOD MIXTURE" (Liquid)  | 1/9          | 16/4     |
| " " " "                   | 3/-          | 28/-     |
| " " " "                   | 12/-         | 112/-    |
| "BLOOD MIXTURE" (Tablets) | 1/9          | 16/4     |
| " " " "                   | 3/-          | 28/-     |
| " " " "                   | 5/-          | 46/8     |
| SKIN LOTION ... ...       | 1/3          | 11/8     |
| SALVE ... ... ...         | 1/3          | 11/8     |
| " ... ... ...             | 3/-          | 28/-     |
| " ... ... ...             | 5/-          | 46/8     |
| APERIENT PILLS ... ...    | 1/3          | 11/8     |
| " ... ... ...             | 3/-          | 28/-     |
| MEDICATED SOAP            | Doz. Tablets |          |
| Box 3 Tablets             | ... ...      | 2/6 7/10 |
| Single Tablets            | ... ...      | 1/-      |

Orders may be assorted as desired at above rates provided they reach minimum values, as follows:

£4 - 4 - 0 less 3 3/4% one month  
£16 - 16 - 0 " 8 3/4% " "  
CARRIAGE PAID PACKING FREE

ORDERS may be sent direct or through the usual wholesale houses.

The Lincoln & Midland Counties Drug  
COMPANY, LIMITED

PARK STREET, LINCOLN

Telegrams: "Lindum, Lincoln." Telephone: Lincoln 55

## Change of name

### EFFALKA

Owing to confusion with another trade mark, the name of this antacid preparation has been changed to

### EFFALGEN

(TRADE MARK)

It is available in two sizes, i.e.,  
2 oz. bottles at 2/- and 14 oz. jars at 10/6

HARWOODS CHEMISTS LTD.  
WATFORD, HERTS

ESTABLISHED 1707.

### ATKINSON & BARKER'S INFANTS' PRESERVATIVE

The Best and Safest Infants' Medicine of  
140 years' standing.

Does not contain any Scheduled Poison.

ROBERT BARKER & SON, LTD.,  
13 WESLEY ST., C. on M., MANCHESTER.



#### Wholesale Prices

1/3 Size  
11/6 per dozen net  
3/- Size  
27/6 per dozen net  
Carriage Paid Gross Quantities  
or equivalent.

Manufactured only by  
J. F. WHITE & CO., Chemists  
BENSON STREET, LEEDS.  
Counter Bills free on application.

# THIS DISPLAY SELLS 'ASPRO'



## & BRINGS CUSTOMERS INTO YOUR SHOP

The window display illustrated above definitely sells 'ASPRO'. It connects up with the largest advertising campaign of its kind in the world. When you display it, you get the benefit of 'ASPRO' advertising just as though you paid for the advertisements yourself—the non-displayer loses customers and loses profit. The present change of the weather conditions is causing a great demand for 'ASPRO'. We suggest, therefore, that if you have an 'ASPRO' display you show it. If you have not one—then write us to-day, and we will send the above set by return of post. Do not forget, either, the 'ASPRO' service of Chemists' envelopes and bags. They are good business pullers—they save you money.

Let us assure you here that our sales activities are being vigorously pushed. House-to-house broadsheeting is in operation, backed by heavy national advertising. We advertise 'ASPRO' continuously. If you keep on displaying 'ASPRO' advertising material 'ASPRO' customers will keep on coming to you.

'ASPRO' consists of the purest Acetylsalicylic acid that has ever been known to Medical Science, and its claims are based on its superiority.

Made in England by

**ASPRO LTD., SLOUGH, BUCKS.**

Phone: Slough 608

AN 'ASPRO'  
WINDOW STICKER

No proprietary right is claimed in the method of manufacture  
or the formula.

**ASPRO**  
REG. TRADE MARK

PARAFFINUM  
LIQUIDUM  
B.P.  
HIGH  
VISCOSITY

TECHNICAL  
WHITE  
and  
HALFWHITE  
OILS

WHITE  
PETROLEUM  
JELLY  
PHARMACEUTICAL  
AND  
TECHNICAL  
Qualities

**HOLROYD'S**  
OIL & CERESINE COMPANY LIMITED

3 NEW LONDON ST., LONDON, E.C.3.

TELEPHONE: ROYAL 5126-7  
TELEGRAMS: ERRIKOLROY, FEN, LONDON.

See that you hold Stocks  
of this  
Safe & reliable Family Remedy

ESTABLISHED OVER 80 YEARS  
AND STILL IN UNIVERSAL DEMAND

**Dr. J. Collis Browne's**  
**CHLORDODYNE**

ORIGINAL AND ONLY GENUINE

80 YEARS'  
WORLD-WIDE  
REPUTATION

Please order from your Wholesaler with  
other goods

Sole Proprietors:

J. T. DAVENPORT LTD.  
UNION STREET, LONDON, S.E.1

SOLD ONLY  
THROUGH  
CHEMISTS  
SIZES 1/3, 3/-

# Should this country be asked to accept

## ★ FOREIGN STANDARDS of VITAMIN POTENCY! ★

Cod Liver Oil of foreign origin is sold in this country under a guarantee that its vitamin potency is:—

**VITAMIN "A" - 500 UNITS**

**VITAMIN "D" - 250 UNITS**

*But these are not International Units as officially recognised by the Second International Vitamin Conference held in London (June 14th, 1934). What description of Units are they then?*

**Read what the 'ANALYST'  
said, June 14th, 1935**

In a recent issue of "The Analyst" (June, 1935) in a description of 67 samples of Cod Liver Oil (which, in view of the hitherto limited British production, presumably were of

foreign origin) purchased in various parts of the country, the average vitamin "D" value was shown to be 81 International Units per gramme.

The following comparative table, based on various Cod Liver Oils, is illuminating:—

### **BRITISH COD LIVER OIL**

### **VITAMIN "D" (International Units)**

**Producers (Hull) Ltd. Guaranteed Minimum 100**

**Average of 67 Samples - - - - - 81**

The above figures show that the guaranteed minimum vitamin "D" value of the Cod Liver Oil produced by us is no less than 23% in excess of the average.

Therefore, buy the high-grade British Cod Liver Oil extracted on the high seas for freshness and refined in the world's largest and most modern Cod Liver Oil Refinery by

# **BRITISH COD LIVER OIL PRODUCERS (HULL) LTD.**

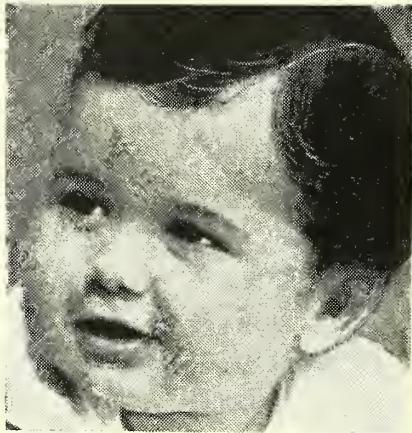
**ST. ANDREW'S DOCK, HULL, ENGLAND**

**Telephone: Hull 37759**

**Telegrams: "Vitamins, Hull"**



# Nurses' Recommendations send Mothers looking for LACTOGEN



*Higher Assimilability of Lactogen saves Baby's life*

“...At the age of 16 months she was  $7\frac{1}{2}$  lbs. and was 8 lbs. at birth. She was brought home to die, could not keep water down. We gave the mother a sample of 'Lactogen.' I myself made the first weak feed; it stayed down and from then onward the child began to gain and to-day she is her full weight, running about as strong as any other child.”

NURSE'S TESTIMONIAL NO. 1054.

Letters like this—and there are many more of them—are clear, convincing proof that babies respond to the higher assimilability of Lactogen. Doctors, Nurses and proud Parents are creating new sales in all districts. Mothers are looking for Lactogen. This means more profitable business for you if you show Lactogen prominently in your windows.

**BETTER MILK FOR BABIES-**  
 ● Send to-day  
 for full particu-  
 lars and terms to the  
 Lactogen Bureau (Dept. AZ142), Nestlé and  
 Anglo-Swiss Condensed Milk Co., 6 & 8  
 Eastcheap, E.C.3.

66 **LACTOGEN**  
REGD TRADE MARK  
 2/9 PER TIN P.A.T.A.

Lactogen—prepared  
 by Nestlé's—is a  
 modified dried milk  
 for use in infant  
 feeding.

Copyright

COMPOSITION STOPPERS  
 BAKELITE MOULDINGS  
 COMPACTE COSMETIC & ROUGE BOXES



200 Varieties  
 Any Colour.

A suitable Composition Stopper will  
 enhance the selling  
 value of your  
 package. Let us fit  
 your Bottles and  
 quote you.



Telephone:  
 Mountview 0952

**W. J. SHARPLIN, Ltd.**  
 Middle Lane Works, Hornsey, LONDON, N.8

**PHOSPHATE OF SODA, Pure**

For Food Purposes  
 ASK FOR SAMPLE AND PRICES

**PERRY & HOPE, LTD.**

Forth and Clyde Chemical Works, NITSHILL  
 Telephone: Giffnock 414 (2 lines). Telegrams: "Perryope Nitshill."

**DOLS'**  
**VOLATALISE**  
**FLANNEL**

THE WONDERFUL REMEDY  
 for RHEUMATISM, NEURITIS,  
 SCIATICA, LUMBAGO, etc.

Now is the time to look to your  
 stock. Send for price list to  
**DOLS' VOLATALISE FLANNEL Ltd.**  
 VIADUCT ST., HUDDERSFIELD



**JONES** for  
**METHYLATED** **SPIRIT**

Send your enquiries to

**JONES & CO. (METHYLATORS) Ltd., Bow, London, E.3**

Telegrams: "Methspirit, London."

ALL STRENGTHS IN STOCK  
 PROMPT DELIVERIES IN CASKS,  
 DRUMS OR TANK LORRY

Telephone: Advance 3210 (2 lines)

# Christmas Trade

*Now is the time when extensive buying is done in Perfumery and Toilet articles*

At Home and Overseas wholesale, export and retail dealers are on the look out for attractive lines in Perfumery and Toilet Soaps, Boudoir Accessories in silver and glassware and other fancy articles and Druggists' Sundries. These sell freely before and during the festive season.

In the issue of  
**THE CHEMIST & DRUGGIST**

to be published on

**September 21st, 1935**

there will be a special supplement produced on tinted paper in violet ink which advertisers can use advantageously for attractive announcements of their products, utilising their usual half-tone or line blocks. A section will likewise be available for those who prefer reproduction in photogravure.

WRITE AT ONCE FOR ALL DETAILS OF SPACE AVAILABLE, ETC., TO:

*The Publisher,*

**THE CHEMIST AND DRUGGIST,**

Phone: Central 6565 (10 lines)

28 ESSEX STREET,  
LONDON, W.C.2

Grams: "Chemicus, Strand, London"



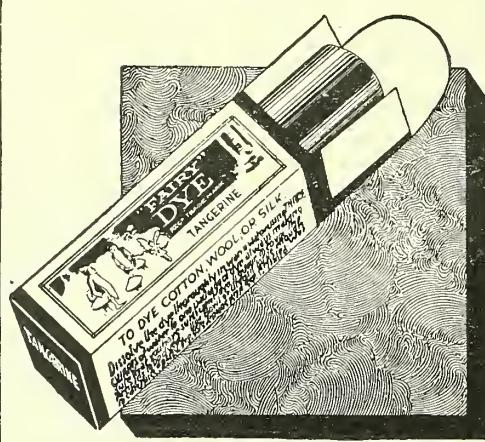
BRANCH OFFICES:

49 County Buildings, Cannon St., MANCHESTER  
155 Avenue de Wagram, PARIS, xviii

19 Waterloo St., GLASGOW  
MELBOURNE and SYDNEY (Australia)

54 Foster's Buildings, High St., SHEFFIELD  
AUCKLAND (New Zealand)





**LONDON DEPOT:**  
292 UPPER STREET, ISLINGTON, N.1

**FAIRY DYES, LTD., GLASGOW, N.W.**

*Fairy Dyes*

**It pays to  
Concentrate  
on  
Advertised goods**

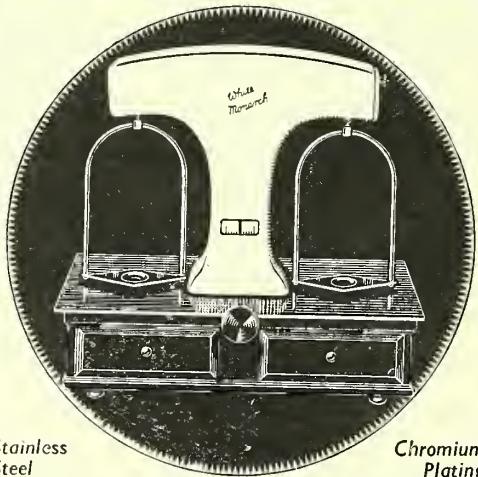
**FAIRY DYES**

are well advertised in the National Press and Ladies' Journals. They meet with a large and steadily increasing demand.

Sold at the popular price of 2d. per tube retail—attractively packed. 31 shades and colours.

See that your stocks are up-to-date.

**WHITE MONARCH**  
THE  
MODERN ENCLOSED DISPENSING BALANCE



Entirely protected from dust and fumes by the white porcelain enamelled housing. Strongly made to withstand hard usage and yet retain its sensitivity

ASK YOUR SUNDRIES HOUSE TO  
SHOW YOU ONE

**WILLIAM A. WEBB, Ltd.**  
4/5 Skinner Street, London, E.C.1

**Bertons' Economy Sanitary Towel**

1. To be nationally advertised as from July 1st in the leading Ladies' Journals
2. Retail Prices show clear 50% on cost
3. Supplied direct from manufacturer or through usual wholesalers
4. Trade enquiries invited



*Retail Prices*  
Size 1—1/- PKT.  
" 2—1/6 " " 3—1/9 " " 4—2/- " " 5—2/6 "

One packet lasts half as long again as the old style packet. They are a boon to the woman who is at business or out of doors all day

**Arthur Berton Ltd.** BRITANNIA HOUSE, OLD ST. LONDON E.C.1  
MACHester: 38 CHAPEL STREET  
GLASGOW: 28-31 DUNDEE STREET





SELLING AIDS.

A display Showcard and "Personal Hygiene" leaflets with every order.

750 perforations to every roll.

No dirty edges, completely wrapped and sealed.

3 Doz. @ 6/- Doz. 6 Doz. @ 5/9 Doz. 12 Doz. @ 5/3 Doz.  
CARRIAGE PAID-NET

# SOL-VO

REGD

# TOILET PAPER

PURE - SOFT - HYGIENIC

(Completely Wrapped)



**FORD, SHAPLAND & CO. LTD.**  
PRINTERS & WHOLESALE STATIONERS,  
GREAT TURNSTILE, HIGH HOLBORN, LONDON, W.C.1

Telephone: HOLPORN 4695.



SOUTHALLS (BIRMINGHAM) LTD.

- The "ORIGINAL" and most popular.
- The "CELTEX" soluble, easily disposed of.
- The "K" made entirely of absorbent cotton wool, with very soft cover.
- The "COMPRESSED" for TRAVELLING. A very popular line.

You need only stock the full range of Southall's Sanitary Towels to satisfy the needs of all of your customers.

## LONDON COLLEGE of Pharmacy

Founded by H. WOOTTON, B.Sc. C. W. GOSLING, Ph.C.  
Principal:—IRVINE G. RANKIN, B.Sc., Ph.C.

Specialists in Training Pharmacists

NEXT SESSION commences OCTOBER 2nd.

6 MONTHS PRELIM. SCIENTIFIC.

9 MONTHS C. & D. QUALIFYING.

3 MONTHS REVISION P.S. and C. & D.

Bench fees now being reserved for P.S. and C. & D.

### "Essentials of Pharmacy"

New Edition 6/- post free.

361 CLAPHAM ROAD, S.W.9

Telephone: BRIXTON 2161

## WESTMINSTER COLLEGE OF PHARMACY

Founder: G. S. V. WILLS, Ph.C. Principal: P. H. WOODNOTH, Ph.C., F.C.S.

### DAY CLASSES

Next Session will commence on October 2nd for Preliminary Scientific and Qualifying Examinations.

### POSTAL COURSES

Preparatory Courses in all Subjects. Fee £1-1-0  
Special Test Papers are available for revision.

Prospectus for Pastoral or Day Classes on application to the Principal:

190 Clapham Road, London, S.W.9

Phone: Reliance 3728

## LIVERPOOL SCHOOL OF PHARMACY

Principal: H. HUMPHREYS-JONES, F.I.C., F.C.S., Ph.C.

Full-time Courses for the Preliminary Scientific and Qualifying Examinations will commence on October 3rd.

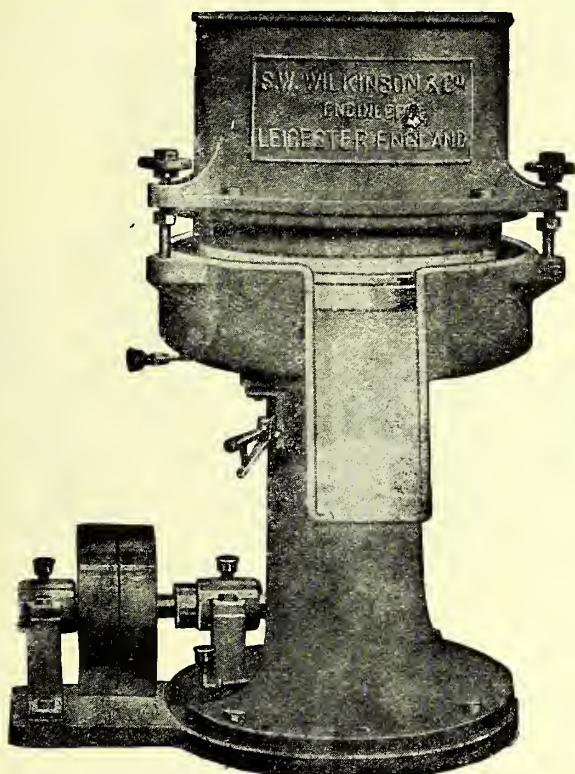
Part-time Course (B.Sc. only) October 2nd.

Book early.

Full particulars on application

2 BLACKBURN PLACE





# The Latest Triumph in OINTMENT MILLS

## SUPER SPEEDY MILL

IN REGULAR USE ALL OVER THE WORLD

THIS Machine is a combined Mixer and Grinder and is used very successfully in the production of all kinds of Ointments, Tooth Pastes, Beauty Creams, Patent Foods, etc.

*Each Machine incorporates Thirty Years' Accumulated Experience*

**S. W. WILKINSON & Co.**

*Chemical Engineers and Specialists in  
Pharmaceutical Machinery*

Western Road, LEICESTER

### NORTHERN POLYTECHNIC, Holloway, London, N.7

T. J. Drakely, D.Sc., Ph.D. (Lond.), F.I.C., F.I.R.I., F.C.S. Principal.  
Recognised Day and Evening courses for PHARMACEUTICAL and 1st and 2nd Medical Degree Examinations. Day and Evening Courses in CHEMISTRY, PHYSICS, MATHEMATICS, BOTANY, ZOOLOGY, and GEOLOGY for Internal and External DEGREE EXAMINATIONS of the University of LONDON. Evening Classes for MATRICULATION subjects. Facilities for RESEARCH WORK (Day and Evening), in Pure and Applied Science. Special Courses in RUBBER TECHNOLOGY and in GLASSBLOWING. New Session begins 23rd September, 1935.

Prospectus post free on application to the Head of the Department—R. W. West, D.Sc. (Lond.), A.R.C.S., F.I.C.

Telephone: North 1686.

### OPTICAL TUITION FOR THE

S.M.C., B.O.A. and N.A.O. DIPLOMA Examinations

Particulars:—

**C. A. SCURR**, F.S.M.C., F.B.O.A., F.N.A.O., F.I.O., F.C.O., M.P.S.  
50 HIGH STREET, BARNET, LONDON, N.

WE SUPPLY  
**DECORATED TINS**  
FOR PACKING  
**OINTMENTS**

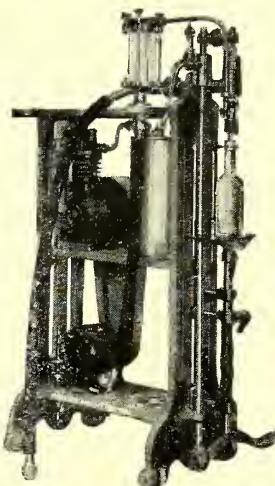
AND OTHER PRODUCTS.

SAMPLES AND PRICES UPON REQUEST.

THE CALDICOT TIN STAMPING WORKS LTD.  
CALDICOT, Nr. CHEPSTOW, Mon.

### ROBERTS' PATENT

## "LEO" VACUUM FILLER



for Glass, Stone,  
and Tin Bottles.  
Fills all sizes from  
drachm to quart—  
long, short or  
sprinkler neck.

Clean and Rapid  
No Over Filling  
Broken Bottles  
Rejected  
Easy to Clean  
Self Rinsing

WRITE FOR  
PARTICULARS

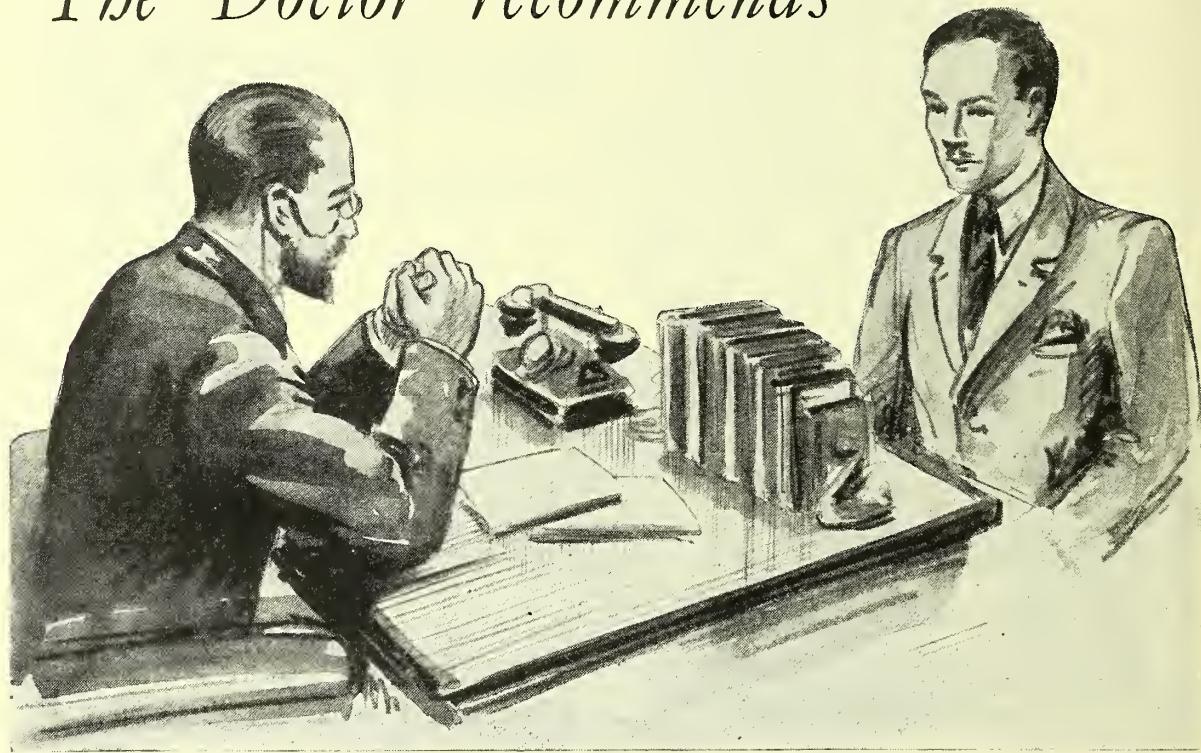
**Roberts' Patent Filling Machine Co.**

T. ROBERTS, Proprietor,  
33 Roundcroft Street, Bolton, Lancashire

Makers of every description of Bottle Filling and Shallow Jar and Tin Filling Machine for the Chemists' use.

ALL RIGHTS RESERVED

# The Doctor recommends



THE Medical Profession the World over highly recommend with confidence, when Birth Control is found advisable, MORFI, the most reliable, **mechanical Transparent Contraceptive** yet produced, and manufactured in the World's largest and **most up-to-date hygienic factories**, the firm with over 20 years' experience.

MORFI is manufactured of the finest Crepe Rubber and pure chemicals only, which enables a definite standard to be maintained.

MORFI Products are transparent, hot vulcanised, and will keep fresh for at least three years in any climate. MORFI Contraceptives are each tested three times, which enables Chemists to sell MORFI Products with absolute confidence.

*In order to restrict the sale to Chemists & Druggists and prevent price-cutting, Morfi Products are now only obtainable direct or through the following limited number of wholesalers.*

MAY, ROBERTS & CO., LTD.  
7-13 Clerkenwell Road, E.C.1  
BROOKS & WARBURTON, LTD.  
232/240 Vauxhall Bridge Road, S.W.1  
JAMES WOOLLEY SONS & CO., LTD.  
Victoria Bridge, Manchester, 3  
ARDELCEY RUBBER PRODUCTS  
407 Coldharbour Lane, S.W.9

|  | Per Gross    |
|--|--------------|
| <b>MORFI TRANSPARENT.</b> Retail 2/6 packet of three                   | - 27/-       |
| “ <b>IVORY.</b> Retail 2/- packet of three                             | - - - 24/-   |
| <b>Fromms Act Tropic-Proof Transparent.</b> Retail 3/- packet of three | - - - - 36/- |
| <b>Tropex Transparent.</b> Retail 1/6 packet of three                  | - - 18/-     |

Carriage paid on all orders of  $\frac{1}{4}$ -gross and upwards

SOLE DISTRIBUTOR

# HERBERT FROMM

Phone: Holborn 4870.

ALDWYCH HOUSE, LONDON, W.C.2



# The CHEMIST AND DRUGGIST

## SUPPLEMENT

This Supplement is inserted in every copy of The Chemist & Druggist

28. ESSEX STREET, LONDON, W.C.2

AUGUST 31,  
1935.

### ADVERTISEMENT TARIFF

**ALL ADVERTISEMENTS** are PREPAID, so that remittance must accompany instructions in each case. If it be necessary to telephone or telegraph an urgent announcement this may be done, provided the money is telegraphed at the same time.

**BUSINESSES WANTED** and for **DISPOSAL, PREMISES TO LET** and **FOR SALE, PREMISES WANTED, PARTNERSHIPS, GOODS for SALE** and **AGENCIES**—6/- for 50 words; every additional 10 words or less, 6d. (Box No., 1/- extra.)

**SITUATIONS OPEN**—6/- for 40 words; every additional 10 words or less, 6d. (Box No., 1/- extra.)

**SITUATIONS WANTED**—2/- for 18 words; every additional 10 words or less, 6d. (Box No., 1/- extra.)

**LEGAL NOTICES, TENDERS, AUCTIONS**, and all specially-spaced announcements, 1/3 per nonpareil line (12 lines = 1 inch single column). (Box No., 1/- extra.)

**MISCELLANEOUS (Wholesalers') Section** for odd and second-hand lots—10/- for 60 words; 1/- for every additional 10 words or less. (Box No., 1/- extra.)

**EXCHANGE COLUMN** (for Retailers, etc.)—Twopence per word, minimum 2/-. (Box No., 1/- extra.)

**THE CHEMIST & DRUGGIST**, 28 Essex St., Strand, London, W.C.2  
Telephone: Central 6565 (8 lines). Telegrams: "Chemicus, Estrand, London."

### CLOSING FOR PRESS

must reach us  
not later than

FIRST POST THURSDAY MORNING

All advertisements intended for insertion in this Supplement

## ORRIDGE & CO.

We make no charge to purchasers, and invite intending buyers to communicate with us, stating their requirements

1.—NORTH LONDON (DEATH VACANCY).—General Retail Business occupying excellent position; returns last year exceeded £3,200; net nearly £700; large premises; stock and fixtures worth about £1,600; price about £2,000 or valuation terms entertained.

2.—LONDON, S.W.—High-class Retail and Dispensing Business; returns £60—£70 weekly; excellent position; scope for increase; stock and fixtures worth about £1,400; reasonable purchase price for quick sale.

3.—EAST LONDON.—General Retail Business with large Panel; present returns exceed £40 per week under management; rent £80 per annum; sublet £60; stock and fixtures worth about £750; nominal sum will be accepted for goodwill.

4.—WESTMINSTER (NEAR).—Family Retail Business; established over 50 years; returns last year £1,516; double-fronted shop; stock and fixtures worth about £600; rent £95 inclusive of rates; long lease; price £900 or near offer.

5.—STOCKWELL, (NEAR).—Middle-class Business with Kodak Agency and Panel Dispensing; very old-established; returns last year £1,019, on which a net profit of £335 was shown; rent, inclusive of rates, £67 18s.; price £700, which is little more than the value of stock and fixtures.

6.—WEST END.—Old-established Business for sale at low price; returns exceed £2,000; gross profit 40 per cent.; minimum price for immediate sale £650, less than the value of stock and fixtures.

7.—LONDON, S.E.—General Retail Business with Post Office; N.H.I. recently added; returns from pharmacy £24 to £25 weekly; net profit, including remuneration from Post Office, about £450 per annum; large house; low rent; price about £1,250, £1,000 down and balance by instalments.

8.—ESSEX (FEW MILES OUT).—Chemist's Business with Optical connection, in pleasant locality; returns exceed £2,700 per annum; attractive shop; mahogany fixtures; stock worth about £800; new lease; valuation terms entertained.

9.—SOUTH LONDON.—Main-road up-to-date Pharmacy with Wireless connection; returns nearly £100 weekly; ill-health cause of sale; reasonable purchase price; further details to genuine buyers.

10.—CITY BUSINESS with increasing turnover; present rate averages over £50 weekly; first-class position; stock and fixtures worth about £600; no reasonable offer refused for quick sale.

## 56 LUDGATE HILL, E.C.4

ESTABLISHED 1846

Telephone Nos.: CITY 2283 & 7477

May be CONSULTED at their Offices on MATTERS of SALE, PURCHASE & VALUATION

11.—LIVERPOOL.—Mixed Middle-class Business with Prescribing and Photographic; fair N.H.I.; established many years; returns, 1935, £1,530; gross profit, £535; good living accommodation with garage; Vendor's own property; price required for business, £975 or near offer.

12.—SOUTH-EAST COAST.—Cash Retail Business with all-the-year-round turnover of approximately £70 per week, increasing; good house; attractive premises; reasonable rent; long lease; price £3,500 or valuation terms entertained; this is a thoroughly sound business and worth immediate attention.

13.—ISLE OF WIGHT.—Seasonal Business returning about £2,000 per annum; very attractive shop, well fitted and stocked; good sized and well arranged flat over; rent £85; held on lease; fixtures worth about £500; stock to suit purchaser; no reasonable offer refused; early sale desired.

14.—HERTFORDSHIRE.—Country Business with Kodak Agency; returns last year about £2,000; present rate less, under management; stock and fixtures worth about £350—£400; good-sized house and large garden; rent £50; held on lease; valuation terms entertained.

15.—EASTERN COUNTY.—Wholesale and Retail Chemist's Business; returns, 1934, £10,458, increasing; freehold premises also for sale; stock and fixtures worth about £4,100; further details on application.

16.—CORNISH RIVIERA.—Chemist Optician Business; takings average £45 per week; good profits; excellent sublet; long lease; price £1,350.

17.—SOUTHAMPTON.—Neglected Business offering scope with personal attention; returns last year £1,100; handsome shop occupying exceptional site on main road; stock worth about £300; price for quick sale, £450.

18.—SURREY.—Middle-class Business producing net profit of about £400 per annum; comfortable living accommodation with garden; rent £98; long lease; price £950; stock and fixtures worth about £750.

19.—WILTSHIRE.—Very old-established Business; returns to 1st April, 1935, £1,110; good profits; low expenses; six-roomed house, garage and well-stocked garden; water and electric light; stock and fixtures worth about £370; no reasonable offer refused.

20.—STOURBRIDGE (NEAR).—Death Vacancy. Middle-class Business offering scope; returns for current year will be about £1,000; seven-roomed house with garden; rent £36; price £260.

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Correspondence, mutually confidential, is invited from prospective purchasers of the following businesses at present available for purchase.

(Cr1) LONDON, N.W.—Main road middle-class business with Kodak agency, etc.; returns during the past three years have shown steady and consistent increase, and are at present at the rate of approximately £2,500 per annum; rent and rates £112; lease 16 years unexpired; certified net profit for 1934/35, £552; for current year will probably approximate £650; audited accounts available; genuine reason for selling; stock and fixtures worth approximately £950; price £1,750 or near offer.

(Cr2) MAIDA VALE (NEAR).—Established main road business with large N.H.I.; turnover approximately £2,200 per annum; high percentage profit; living accommodation with private entrance; rent £150; lease 14 years; price £1,500.

(Cr3) DEVON.—Old-established pharmacy, occupying leading position in main thoroughfare; has not been fully exploited during the past few years, but is well capable of an early annual turnover of £3,000/£3,500; present returns approximately £1,800; spacious living accommodation with bathroom, etc.; price by negotiation.

(Cr4) SOMERSET.—Good class dispensing business situated in popular holiday resort; present returns approximately £1,600 per annum and steadily increasing; gross profit about £700; good living accommodation; reasonable overheads; genuine reason for selling; price for quick sale £1,100.

(Cr5) FINCHLEY (NEAR).—Old-established main road business offering splendid opportunities; large self-contained house with bathroom, etc., attached; 1934 turnover approx. £1,750, but these figures represent no criterion as to capabilities; owner retiring; price by negotiation.

(Cr6) KENT.—Exceptional opportunity for enterprising chemist to acquire increasing business with property for an outlay of approximately £700; turnover for 1933/34, £998; 1934/35, £1,203; up-to-date self-contained house with good garden and garage; no near opposition; situated on main road; full particulars upon application.

(Cr7) CLAPHAM.—Up-to-date lock-up pharmacy showing consistent progress; last year's turnover £1,294; now doing £27 per week; reasonable overheads; price £700, or offer.

(Cr8) MANCHESTER (SUBURB).—Main road business situated in populous area; present returns approximately £1,100 per annum; accountant's figures; rent £65, including living accommodation with three bedrooms, etc.; a quick sale is desired, and value of stock and fixtures will be accepted; (stock £300; fixtures £125); full details upon application.

(Cr9) LONDON AND DISTRICT.—A number of businesses with turnovers varying from £750 to £1,400 per annum are offered for sale,

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in the majority of cases at value of stock and fixtures; living accommodation available in most instances; payment by instalments entertained; general particulars of the businesses in question will be forwarded to prospective purchasers in strict confidence.

(Cr10) LANCASHIRE TOWN.—Double-fronted main road pharmacy situated in central position; certified turnover for 1934/35, £1,620; net profit £450; excellent living accommodation; property can be purchased or taken on lease; reasonable goodwill accepted, plus value of stock and fixtures.

(Cr11) LONDON, S.W.—Owner having purchased another business an immediate sale of his present concern is essential, and the first reasonable offer will be accepted; turnover approximately £3,200 per annum; situated in good-class district; full details upon application.

(Cr12) SUTTON (SURREY).—Easily conducted family business with up-to-date house attached; turnover well capable of increase if fully exploited; returns for last year, £1,456; gross profit, £543; net profit about £375; no near opposition; price all-at £950, including stock and fixtures estimated at £750.

(Cr13) WESTCLIFF.—Splendid opportunity for enterprising chemist to acquire good progressive family business in prominent residential district; accountants' figures; turnover for last year, £1,363; net profit, £335; rent, £100, including good house; first reasonable offer secures; well recommended from personal knowledge.

(Cr14) KENT.—Unopposed country business with modern house including large orchard/garden; property can be purchased, or leased at £100 per annum; price £950 including stock and fixtures estimated at £700.

(Cr15) BLACKPOOL.—Good-class pharmacy occupying prominent position; old-established; turnover upwards of £1,700 per annum; net profit to owner-proprietor, £450, with plenty of scope for increase; price about £750, including stock £450; very attractive proposition.

(Cr16) HERTFORDSHIRE.—Country business doing approximately £27 per week; scope for considerable increase; good-sized house with large garden; rent £50 per annum; reasonable purchase price.

(Cr17) WILTSHIRE.—Unopposed business; turnover £20/£25 weekly; rent and rates £54 per annum; good living accommodation with garage; owner has bought larger business and requires to realise immediately; stock and fixtures approximately £370; £500 all-at or offer, accepted for quick sale.

(Cr18) VICTORIA (NEAR).—Good family business showing average returns of approximately £1,650 per annum; double-fronted lock-up shop; rent £95; good scope for further development; price £900; genuine reason for selling.

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2.—SOMERSET.—Good-class Retail and Dispensing Business, increasing returns, this year about £1,600; good profits; attractive Pharmacy with excellent living accommodation; owner leaving Pharmacy; price £1,100; trial allowed.

3.—EASTERN COUNTY.—Medium-class Light Retail, in important town; returns average nearly £1,000; low rent on lease; well fitted shop (lock up); stock worth £350; genuine reasons for selling; price £550.

4.—WILTS.—Sound Country Business; returns £1,100, increasing; net profit £250; good house, garden and garage; water and electric light; rent and rates £54; price for early sale £595, or near offer.

5.—HERTS.—Good Middle-class Cash Retail; in main-road position in important town; returns about £50 weekly; plenty of scope; large shop with house attached; illness compels sale; price £550 or offer; personally recommended.

6.—LONDON SUBURB.—Well-established Cash Retail, with good Panel; present returns about £35 weekly; scope for increase; main-road position; attractive shop; good house, etc.; price £900; recommended.

7.—NORTH LONDON.—Sound Middle-class Business, with excellent Panel; returns last year £1,480; neglected; was doing £1,850; owner retiring; well-equipped Pharmacy; good position; stock worth £600; offers invited; personally recommended.

8.—LONDON, W. (Few miles out).—Sound Light Retail; main-road position; returns £1,700, net profit £450; rent £75, sublet £68; spacious shop, well stocked; leaving trade; price £800 or near offer.

9.—EAST HAM (near).—Progressive Cash Retail with excellent Panel; returns under management nearly £1,400, net profit about £350; modern Pharmacy; price £725 or offer, and £1,000 for property; £700 mortgage can be transferred.

10.—WIMBLEDON.—Light Cash Retail, in good position; returns about £1,100, increasing; audited books; good house and garden; stock and fixtures worth over £400; price £650 or offer.

11.—LONDON, S.W.—Well-established Light Suburban Business; under elderly manager; returns about £19 weekly; plenty of scope; good living accommodation; new; 14 years' lease; stock worth £277; price £450 or close offer.

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**H**AMPSHIRE.—Small Middle-class Business, with excellent living accommodation, for immediate disposal; plenty of scope for increase; district growing rapidly; price about £500. Particulars to bona fide applicants. Apply 239/38, Office of this Paper.

**L**ONDON, S.W.—For immediate disposal; lock-up shop; all cash trade; cash takings £1,150, plus N.H.I., 350 monthly; well populated industrial area; with genuine scope for increase; stock £350; net profit averages £300; rent and rates £72 p.a.; owner leaving retail pharmacy; price £550 all in, open to offer. 238/7, Office of this Paper.

**L**ONDON, S.W.—Old-established Business for sale; N.H.I. fees cover all overhead expenses; premises over shop sublet at substantial rent; good tenants; Counter returns last year £800; good profit; Kodak Agency; scope for Optics; fully stocked; present hands 7 years; accounts audited; price £600, all at; cash only; proprietor buying larger business. Further particulars to genuine buyers. No agents. 240/11, Office of this Paper.

**M**IDDLESEX.—Smart double-fronted Shop; centre middle-class residential area; only opened June; already approximating £20 weekly, increasing; valuable 21 years lease, permitting sub-letting to Dentist and/or Optician (ample room); "comfy", flat above, producing £52 annually, leaving remaining rent balance under £100 yearly; new estate area adjoins shop; room for 500 houses; building commences next year; no opposition shops allowed under town planning (owner selling owing to recurrence chest trouble); this is one of the key positions, and should in a few years become one of the finest Chemist's businesses in the county. Apply for order to view to Solicitors, 239/35, Office of this Paper.

**S**OUTHEND-ON-SEA.—Chemist's Double-fronted Shop, with good living accommodation; low rent; well stocked; trade £20 per week; price £350 all at. Station Estate Office, Prittlewell.

**S**OUTH WALES.—Drug Store; lock-up shop; turnover over £12 a week under Unqualified management; can be easily doubled by Qualified Manager; Kodak, Selo, etc.; rent and rates nett 7s. 6d. a week; good profits; illness compels immediate sale; scope for Dispensing and addition of Poisons; fair price for cash. 237/2, Office of this Paper.

**W**EST LONDON Business doing over £1,100 (average), only open 10 months, under large block of flats; central heating; h. and c. water in shop and basement; willing to accept £750, value of stock and fittings (ought to double returns in 12 months); private reasons for selling. 239/18, Office of this Paper.

**A**DVERTISER willing to exchange Old-established High-class Business in the North for one in the South; turnover not less than £2,600; preferably Sussex Coast. 238/19, Office of this Paper.

**L**IIGHT RETAIL AND DISPENSING (Dorset Border).—Large Shop, fitted mahogany; nice house and garden at rear; lease 14 years to run; rent £120; rates 3s. 9d.; established 60 years; average returns £1,850; price £1,600. "Chemist," 10 Station Road, Parkstone.

## BUSINESSES WANTED.

**P**RIVATE Chemist requires High-class Dispensing Business, with Photo and Toilet connection, opening for Optics, on South Coast, Brighton preferred; scope for development, preferably non-seasonal; net profit £700 or over; living accommodation, but not essential; £5,000 available; would consider partnership view succession; must bear investigation. Replies in confidence to 231/23, Office of this Paper.

## PREMISES TO LET.

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**H**ENDON.—Shop with three rooms, suitable for High-class Chemist; facing Town Hall and Public Library; inclusive rent £120 per annum on 5 years' agreement. Apply Box 251, T. C. Bench, Ltd., 3 Tudor Street, E.C.4.

**K**ENT COAST.—Double-fronted Corner Shop on main road; rapidly developing district; fitted for Chemist-Optician, with sight-testing room; nucleus trade exists; no Optical opposition; rent £32 10s., rates £7 15s.; fittings at valuation; exceptional opportunity for young Chemist-Optician. 240/3, Office of this Paper.

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**B**EXLEY.—New Shop and House; splendid position, next to co-op.; no opposition; large growing and residential district; £1,050, freehold; substantial mortgage arranged; great opportunity. Apply O'Donnell, 1 Falconwood Avenue, Welling, Kent. 'Phone Wool. 1955.

**C**HEMIST (as proprietor) wanted to open Corner Shop near High Street, Staines; position suitable; good terms can be arranged; only small capital necessary; self-contained flat over if required. 238/34, Office of this Paper.

**K**EY POSITION.—Splendid opportunity for Chemist; busy main road; large modern double-fronted freehold premises; fitted Ladies' Saloon at rear, sub-let at £143 per annum; upper part, 5 rooms and bathroom; price £2,000 or nearest offer. Phone East 1841 or write Townsley, 161 East India Dock Road, London, E.14.

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## OFFICIAL APPOINTMENTS.

### LONDON COUNTY COUNCIL.

**P**HARMACISTS (Men or Women) holding Certificate of Pharmaceutical Society of Great Britain required at the establishments specified below:

**P**HARMACIST (Scale "C"), £250—£10—£300.

(1) ISLINGTON INSTITUTION, St. John's Road, N.19.  
(2) JOYCE GREEN HOSPITAL } Dartford, Kent.  
(3) SOUTHERN HOSPITAL }

The duties at Islington Institution include the Dispensing for the Out-Relief Dispensary at St. John's Road, N.19.

The duties at Joyce Green Hospital include supervision of any work being carried out at the Council's Orchard and Long Reach Hospitals and South Wharf Receiving Station, and the supervision of Stock and Stock-taking at these places.

**P**HARMACIST, acting as Assistant to another Pharmacist, £225—£10—£275.

**ST. MARY, ISLINGTON, HOSPITAL**, Highgate Hill, N.19.

In case of women, marriage terminates contract of service. Forms of application (stamped addressed envelope necessary) obtainable from Medical Officer of Health (S.D.3), County Hall, S.E.1, returnable by 11th September. Canvassing disqualifies.

## PROPRIETARY AGENCY

Manufacturers of nationally advertised proprietary seek arrangement with substantial distributive agency to offer and market their preparation. Confidential replies to 266/630, Office of this Paper.

## AGENCIES.

A NORTHERN FIRM, considering extending its sphere of business, due to encouraging increase of repeat orders, already necessitating extensions, invites inquiries from Agents in various counties, including London, South, Midlands and Western counties; must have existing connection amongst Chemists, and be able to effect local delivery to customers. 239/43, Office of this Paper.

A GENT or Representative wanted for High-class Toiletry Line, including full range. Reply 266/627, Office of this Paper.

## TENDERS.

## SEVERALLS MENTAL HOSPITAL, COLCHESTER.

THE COMMITTEE OF VISITORS invite TENDERS for the supply of Drugs and Dressings for the six months ending 31st March, 1936.

For Form of Tender apply, enclosing stamped addressed envelope, to the Clerk of the Hospital, Severalls, Colchester.

Sealed Tenders must be received not later than 14th September, 1935, addressed to the Committee of Visitors, Severalls Mental Hospital, Colchester.

The Committee do not bind themselves to accept the lowest or any tender.

## SITUATIONS OPEN.

## RETAIL (HOME).

6s. for 40 words or less; 6d. for every additional 10 words or less, prepaid. (Box No., 1s. extra.)

BOURNEMOUTH.—Thoroughly reliable Junior or Improver; must be of smart appearance and well recommended; just out of apprenticeship will do; state age, experience and salary required; photo if possible. A. E. Lodder, 203 Seaborne Road, Bournemouth.

BUCKS.—Unmarried Unqualified Assistant for September 30th; please state full particulars of experience, age, salary (outdoors), and enclose recent photo. 238/10, Office of this Paper.

CARDIFF.—Capable Qualified Assistant required to manage small branch; male or female; must be good Window-dresser and tactful Salesman; salary and commission; permanency for the right person. Full particulars, with photo and experience, to Robinson, 134 Whitchurch Road, Cardiff.

CARDIFF.—Qualified Dispenser required. Apply, with usual particulars, R. W. Duck & Son, Ltd., St. John's Square, Cardiff.

LONDON.—Manager for Branch, with knowledge of Optics; used to mixed class and N.H.I.; must be clean and methodical; good Window-dresser. State age, salary required and previous experience; applications not answered in 7 days respectfully declined. 239/22, Office of this Paper.

LONDON, North.—Lady Assistant required, for Working-class Business; rapid Panel Dispensing; quick Counter trade; must have a live personality, and Prescribing experience. Full particulars, age, height, experience, enclosing photograph and copies of references with stamped envelope for return. 239/6, Office of this Paper.

LONDON, S.W.—Young Qualified Man to manage, single-handed, small branch; must be good Window-dresser; clean, conscientious and careful Dispenser. Full particulars to H. Bishop, Chemist, Deane Parade, Eastcote, Middlesex.

MIDLANDS.—Unqualified Assistant required for High-class Dispensing Business; no N.H.I.; permanency for right man; Apply, stating age, experience and salary required; must have good address and be good Dispenser. 239/30, Office of this Paper.

NORFOLK (Seaside).—First week October: Qualified Assistant; (about 30-45); permanency; salary £3 5s. and commission on increased turnover; working-class district; please state usual particulars; used to N.H.I.; snap if possible. 238/21, Office of this Paper.

ROCHDALE DISTRICT.—Qualified Assistant; pleasant and willing worker; salary, usual particulars and when disengaged; no stamps; applications not answered in 7 days please consider suited. 240/2, Office of this Paper.

WARNEFORD GENERAL HOSPITAL,  
LEAMINGTON SPA.

APPLICATIONS are invited from Qualified and Registered Pharmacists for the post of Pharmacist to the above Hospital; salary £200 per annum; Federated Superannuation Scheme in force; previous Hospital experience desirable. Applications, stating age and accompanied by copies of three recent testimonials, should be sent to the undersigned by Thursday, September 12th, 1935.

EDWARD L. WIRGMAN,  
House Governor and Secretary.

YORKSHIRE.—Qualified Locum required, from September 30th, for three weeks, for High-class Dispensing Business. Reply, stating salary and usual particulars, 238/11, Office of this Paper.

A QUALIFIED Assistant wanted (under 30). Apply, stating references and salary required, to 239/4, Office of this Paper.

A SMART Unqualified Junior Assistant wanted, at once, for Good-class Business; give particulars of experience, age and salary required; applications not answered in three days respectfully declined. Wootton & Webb, Ltd., 20 George Street, Luton.

A SSISTANT for Good-class Dispensing Business on South Coast; to live over business, four rooms; must be capable Dispenser and Window-dresser; permanency; good references essential; full particulars in first letter; applications unanswered in five days declined. 238/6, Office of this Paper.

A SSISTANT wanted; must be really good Window-dresser and Dispenser, some Counter and Photography; large flat available; suit lady and mother or married man. Send full particulars and salary required, and whether qualified. 239/32, Office of this Paper.

CAPABLE Junior Assistant wanted shortly; industrial district, neighbourhood of Birmingham; rapid N.H.I. Dispensing, Counter and Window-dressing; kindly state age, experience, salary, etc., in letter of application; if unanswered in 7 days respectfully declined. 239/51, Office of this Paper.

EXPERIENCED Relief Assistant required, September 23, for two or probably three weeks; Qualified or Unqualified if competent; please state age, height, qualifications, etc., and salary required; enclose photo and testimonial; stamped addressed envelope will assure reply. Hunnisett, 82 Seaside, Eastbourne.

HERBAL and Drug Store, S. London (Soft Drinks).—Manager required: sole charge; moderate salary. Write age, qualifications, to "M.", 37 Mountfield Road, N.16.

IMMEDIATELY.—Locum, not necessarily Qualified, for 3 weeks from September 2nd. Apply, giving age, salary required, references, etc., to Bainford, Port Talbot.

IMPROVER, Male, wanted September 23rd; just finished apprenticeship would do; must be familiar with N.H.I. work, show ability at Counter, and industrious worker; applications not answered respectfully declined. Apply, with full details, to Thomas, Faversham, Kent.

IMPROVER wanted second week September; state usual particulars; applications not answered in 7 days declined with thanks. R. H. Kerr, M.P.S., 442 Uxbridge Road, W.12.

## PHOTOGRAPHS, TESTIMONIALS, &amp;c.

When answering advertisements in this section applicants are strongly advised not to send (unless specially requested) ORIGINAL TESTIMONIALS or VALUABLE PHOTOGRAPHS. As can be readily understood, when an advertiser receives from 100 to 150 replies the task of returning photographs, testimonials, &c., is one of some difficulty.

**J**UNIOR Assistant (Male) (outdoors) for good-class business, at once; with Photographic knowledge; give full particulars, age, height and salary required, with photo if possible. H. S. Smith, "Lauriston," North Parade, Horsham.

**J**UNIOR Assistant (young, gentlemanly) required; to commence September 30th; capable, willing; with Counter experience; good Window-dresser; seaside experience preferred. State full particulars to Blacklock & Co., The Square, Bournemouth.

**J**UNIOR or Improver (one just out of apprenticeship preferred) required for Good-class Dispensing and Retail. Full particulars to S. Chapman, 209 Woodhouse Road, Friern Barnet, N.12.

**J**UNIOR or Improver; to commence September 9th; must be quick, accurate Dispenser. State salary and usual particulars to Wm. C. Harris, Station Buildings, Grove Park, S.E.12. Telephone: Lee Green 0471.

**J**UNIOR wanted for Good-class Dispensing and Retail. Reply, with full particulars, to Bone, Chislehurst.

**L**ADY Assistant, Unqualified; able to attend Counter, Window-dressing and little Dispensing; commence September 16th. State usual particulars to 238/17, Office of this Paper.

**L**ADY Dispenser wanted for good-class business; give age, experience and state salary required; photo if possible, which will be returned. A. & N. Catto, Ltd., 49 Cranbrook Road, Ilford.

**L**OCUM, Qualified; indoors; from September 1st or 7th; small Family and Dispensing business, London, S.E.; state lowest salary and age. 239/25, Office of this Paper.

**L**OCUM, Qualified, wanted from September 19th to 25th, inclusive. State age, experience and salary required to A. T. Gray, 5 High Street, Barnes, S.W.13.

**L**OCUM wanted immediately, for 14 days. Apply Sutton, 3 Broadway, Ludgate Hill, E.C.4.

**M**ANAGEMENT of Established London Business offered to Qualified Investor; capital £150-£200 necessary. Business is in growing district and with slight increase will be a paying proposition. Share in net profits; Guaranteed minimum. Preference to a Chemist-Optician. An excellent situation for enterprising M.P.S. and chance to build an extensive business in a few years. 239/350, Office of this Paper.

**M**ANAGER (not over 45), Qualified, for high-class business, South Coast; good personality; excellent prospects to keen, live man. Apply, with full particulars, photo, 240/13, Office of this Paper.

**M**ANAGER, Qualified, for branch; N.H.I. Dispensing and General Mixed Retail. Apply Bewell's, Ltd., 19-21 Pitfield Street, N.L.

**M**ANAGER, Qualified, for Drug, Photo and Perfume Department; permanency; give full details of experience, age, etc.; enclose photo; state salary required. Jarrold & Sons, Ltd., London Street, Norwich.

**M**ANAGER, Qualified; Optics great asset; take charge new branch near Harrow; capable, honest; good prospects for right man. Also smart Lady Assistant for N.W.11 district; good knowledge Beauty Products, Arden, Cyclax, etc.; must be excellent Saleswoman; able Type an asset; apply in both cases, giving full details, stating salary required; applications not answered within 3 days regretfully declined. 266/625, Office of this Paper.

**M.P.S.** REQUIRED, elderly, active, to superintend old established Family Business; East London; light duties and N.H.I. State age, salary (which must be moderate), if disengaged, and references, in first letter. 239/10, Office of this Paper.

**P**HARMACY.—Female Assistant required; must have had general Pharmaceutical and Shop experience. Apply in writing, stating age and experience, to the Staff Manager, Royal Arsenal Co-operative Society, Limited, 148 Powis Street, Woolwich, S.E.18. Endorse envelope "Pharmacy." Widows and single persons only considered. NOTE.—Canvassing of members of the General Committee or Officials will disqualify.

**Q**UALIFIED Assistant, S.W. district; able to take charge; good Window-dresser and smart Counterhand; permanency. Write, stating age, experience and salary required, 239/53, Office of this Paper.

**Q**UALIFIED Assistant (25-35), single; accurate Dispenser; knowledge Optics, but not essential; all particulars in first letter, with recent photo. Hare, Chemist, Liverpool Road, Birkdale, Southport.

**Q**UALIFIED Dispenser wanted; Bristol district; just Qualified preferred. Write, stating wages, experience, age and when disengaged, to 237/6, Office of this Paper.

**Q**UALIFIED, elderly, married, required; to manage Mixed Country Branch in Devon; good living accommodation provided; state salary, which must be moderate; suit gentleman requiring quiet country life. Apply 238/15, Office of this Paper.

**Q**UALIFIED, Holiday Relief, Male, wanted Friday, September 13 to Saturday 28 inclusive; South London suburb (half-hour tram or bus Charing Cross or City); usual particulars; if not answered 7 days please consider suited. P.C.B. 174/4, Office of this Paper.

**Q**UALIFIED Lady Assistant required to manage branch shop in Sunderland. Full particulars, age, salary required and references, photograph if possible, to 239/42, Office of this Paper.

**Q**UALIFIED Lady required; immediate position. State salary and references. Stockport district; high-class business; also Apprentice required. 238/3, Office of this Paper.

**Q**UALIFIED Locum wanted; September 16 (2 weeks); state wages, etc.; part-time holiday could be arranged if wages were agreeable. Smithsons Ltd., Dispensing and Family Chemists, Preston Circus, Brighton. Telephone: 4987 Brighton.

**Q**UALIFIED Man wanted, immediately, for Chelsea branch; knowledge of Optics preferred. Apply personally to Chemist, 328 Vauxhall Bridge Road, S.W.1.

**Q**UALIFIED Manager; steady and industrious; willing to invest £500; to take charge of old-established Pharmacy on S.E. Coast; position arises owing to ill-health of present proprietor; exceptionally good opportunity for right man. 266/621, Office of this Paper.

**S**MART Qualified Assistant (20-25), Male, required, with good all-round experience. Write details of experience and salary required to The Victoria Pharmacy, 7 Wilton Road, S.W.1.

**U**NQUALIFIED Junior Assistant (not over 23), male, wanted for High-class Dispensing Business. Apply, stating age, experience and salary required, to James Righton, Chemist, Lord Street, Southport.

**U**NQUALIFIED Lady Assistant wanted for good-class business; early September; must be experienced in Toilet and Surgical Goods; must live within easy reach of business. Applications in writing, with full particulars, to Tolley, 107 The Broadway, Mill Hill, N.W.7.

**W**ANTED.—Qualified Assistant or Manager. State wage, etc., 240/9, Office of this Paper.

**W**ANTED.—Young Qualified, male or female, for small country branch; suitable to newly-Qualified wishing to gain experience. Applications, enclosing references and stating terms, should be addressed to T. H. Fox, 300 High Street, Berkhamsted. All applications unanswered by September 7th respectfully declined.

**Y**OUNG Lady Assistant (20-22), Unqualified, required for general Counter work and Sales in quick Retail business; permanency; one with good country town apprenticeship and experience preferred. The Prosser Roberts Co., Pharmaceutical Chemists, 13 Church Street, Camberwell, London, S.E.

## WHOLESALE.

**M**IDLANDS AND S. WALES.—Old-established Manufacturing House requires the services of a Young and Active Representative, with some Retail experience, to work and extend existing connection; state territory covered, experience and nature of goods previously carried, age, remuneration required and when available, all in first letter, which will be treated in confidence; no stamps. 266/624, Office of this Paper.

**A**GENTS wanted for (1) Lancashire, (2) Scotland, (3) Midlands, (4) South Coast, to carry Health Salt and attractive Packed and Loose Tablet Lines; liberal commission; only men with sound connection need apply. Harrogate Tablet Co., Ltd., Chatsworth Grove, Harrogate.

**B**ENTALLS OF KINGSTON require Qualified Chemist; woman preferred, but not essential; full knowledge of, and able to control, Drug and Surgical Department; no Dispensing. Write, giving full particulars of experience, age and salary required, to the General Manager.

**E**XPERIENCED Representatives, with connection amongst Stores, Hairdressers and Chemists, required by Bond Street firm of Beauty Specialists to introduce new high-class range of Beauty Preparations; vacancies still available for Home and Eastern Counties; commission only; would consider applicants carrying non-competitive lines. Write, giving full particulars, P.C.B. 174/8, Office of this Paper.

**F. M. R**IMMINGTON & SON, LTD., require a Manager (27 to 35) for branch; married; to live near shop; experience of Good-class Dispensing Business essential. Apply, with full particulars of qualification, age, experience and salary required, to 9 Bridge Street, Bradford.

**F**OREWOMAN.—Competent Working Forewoman required; accustomed to Control of Female Staff and Modern Packing Methods; experience in Medical, Pharmaceutical, Toilet and Perfumery Products essential. Write in confidence, giving full particulars and stating salary required, to 266/619, Office of this Paper.

**J**UNIOR Clerk (aged about 18) required in the office of London Wholesale druggists. Write with particulars of experience, salary required, etc., 266/626, Office of this Paper.

**L**ADY Dispenser (Hall) (25), requires post with Chemist, Doctor or Institution in Blackburn or Bury district; six years' experience with doctors; excellent references; free October 1st. 239/24, Office of this Paper.

**R**EPRESENTATIVE wanted by old-established firm; must have good connection Chemists, Stores, Hairdressers; Wales, Lancashire, Westmorland and Cumberland; allowance £6 per week against liberal commission; must possess car. Write, with details, 266/629, Office of this Paper.

**R**EPRESENTATIVES required by Old-established French Pharmaceutical Manufacturers; good connection with Wholesale and Retail Chemists essential; no objection to other lines carried; good commission only; state territory. 239/260, Office of this Paper.

**R**EPRESENTATIVES wanted for very Old-established High-class French Perfumers; on very good commission basis only; state territory and full particulars. 239/26, Office of this Paper.

**R**EPRESENTATIVES, with connections amongst Chemists, wanted for Lancashire, Midlands and West of England; well-known line; salary and commission; no objection to one or two additional non-competitive lines being carried. Full particulars, giving age, experience, etc., to 265/593, Office of this Paper.

**R**EQUIRED.—Assistant (about 24), female; experienced in Wholesale Druggists' Sundries; state salary required and details of experience. Applications to Miss Holdsworth, Hirst Brooke & Hirst Ltd., Sheepscar Works, Leeds.

**R**EQUIRED by important Irish Company, Qualified Chemist (I.F.S. qualification), with Manufacturing experience and knowledge of the Wholesale Drug business. Apply, stating age and salary expected, to 266/628, Office of this Paper.

**T**HERMOMETER Manufacturers require Representatives, with established connections, to introduce their Clinical and Household Thermometers, on liberal commission basis, to Retail Chemists in following areas:—London, South Coast, Midlands, Wales, Northern Counties and Eastern Scotland. Write full particulars of record, etc., 240/14, Office of this Paper.

**V**ETERINARY CHEMIST.—An opportunity occurs for a Fully Qualified Man, with actual experience in Analysing and Manufacturing Veterinary Medicines, to join small established company supplying direct to farmers, with view to extending business; excellent opportunity for man capable of taking control of Manufacturing; state if capital available, which can be fully secured. 235/2, Office of this Paper.

## COLONIAL, INDIAN AND FOREIGN.

**I**NDIA.—Messrs. Bathgate & Co., Wholesale and Retail Chemists, Calcutta, require a Qualified Assistant (not over 25; single), with experience since qualifying; 4 years' agreement; passage paid out and home; salary, which starts from date of sailing, first year, Rupees 400 monthly (about £30), second year Rupees 425 (£31 17s. 6d.), third year Rupees 450 (about £33 15s. 0d.), fourth year Rupees 475 (about £35 12s. 6d.). Write, giving particulars, to Box ZL500, c/o Deacon's Advertising Agency, 5 St. Mary Axe, E.C.3.

## SITUATIONS WANTED.

### RETAIL (HOME).

2s. for 18 words or less; 6d. for every additional 10 words or less, prepaid. (Box No., 1s. extra.)

**A.A.A.** —ASSISTANT (23) desires situation; locum or permanency; excellent experience; disengaged; references. "K.," 47 Aldbourne Road, W.12.

**A.A.A.** —M.P.S. (26), thoroughly experienced, desires permanent position as Manager or Assistant; Bournemouth or district preferred. Powers, "Manor Hotel," Burley. Tele.: Burley 70.

**A.A.** —CAPABLE Unqualified Assistant; tall; 12 years' experience; Cine-Photography, Window-dressing, Dispensing, Counter; resident in Midlands. 239/37, Office of this Paper.

**A** CHANGE desired by experienced Qualified Chemist; Manager, London preferred; engaged, free one month. 239/8, Office of this Paper.

**A**CTIVE, Capable, elderly Pharmacist; Dispensing, Superintending, or with Manufacturers; light duties, moderate salary. M.P.S., 15 Tolmers Road, Cuffley.

**A**CTIVE Qualified Manager, married, desires position where good service appreciated; undeniable references; good all-round experience, including London 15 years; London or seaside preferred. "Chemist," 241 London Road, Mitcham.

**A**N Experienced Assistant, accustomed to High-class Retail, with heavy Dispensing, desires good permanency in September; London district preferred; excellent references; 5 ft. 10 in. "Spes," 9 Shandon Road, Clapham Park, S.W.4.

**A**N Experienced Qualified Man (27) seeks change; well educated; single; good references. "Chemist," 15 Woodbury Park Road, Tunbridge Wells.

**A**S Manager or Locum; sound experience; late Savory & Moore. I. L. Davies, 164 Clapham Road, London, S.W.

**A**S Manager; 15 years in management; neglected business pleasure to work up. "M.P.S.," 153 Rendlesham Road, E.5.

**A**SSISTANT, Male, 10 years' all-round experience, seeks position immediately; excellent references; age 28. "Chemist," 128 Sutherland Avenue, Maida Vale, London, W.9. Phone: Brixton 2675 or Abercorn 3139.

**A**SSISTANT, Unqualified; 11 years last situation; Dispensing and Counter work; disengaged. "W.," 58 Northcroft Road, W.13.

**A**SSISTANT (26); 7 years' all-round experience; single; free now. Rowe, 21 St. Michael's Street, Oxford.

**E**XPERIENCED, Qualified Locum or Relief; free from September 23; open engagement Qualified Dispenser or Manager; minimum £4 16s. 6d. Harris, 247 Westmount Road, Eltham, S.E.9.

**L**ADY Dispenser (23), Unqualified, college trained, requires permanency; shop experience; free any time; excellent references. 266/623, Office of this Paper.

**L**OCUM, free September 7; Qualified, good experience; London preferred. Phone Uxbridge 706 or write c/o John, 3 The Parade, Cowley, Uxbridge.

**L**OCUM, with excellent references; free September 16 to 21 inclusive; Unqualified. E., "Sanawar," Vicarage Lane, King's Langley, Herts.

**L**ONDON (or near).—Qualified Manager (middle-aged); wide experience; good appearance; excellent references. R., 12 The Crescent, Barnes.

**L**ONDON OR NEAR.—Qualified (30) desires Managership; free September 9; had own business for past few years; thoroughly reliable; business builder. Phone Clissold 3541 after 6.30 p.m. or write c/o 76 Downs Park Road, Dalston, E.8.

**M**ANAGER (35), married, free end of September; best possible references. Beck, 193 Harrow View, Harrow.

**M.P.S.**, F.B.O.A., with business acumen, elderly, energetic, disengaged shortly. 240/19, Office of this Paper.

**M.P.S.**, THOROUGHLY experienced, seeks Managership, with view Purchase; neglected business with scope entertained; West Sussex near coast preferred. 240/17, Office of this Paper.

**M.P.S.** (24), with knowledge of Optics, desires change; smart appearance; all-round experience country and London; free one month. 240/8, Office of this Paper.

**M.P.S.** (22; 5 ft. 11 ins.) desires permanency or locum as Manager in West End or London; with Optician preferred; specialised Window-dressing, Counter, Dispensing and Photographics; London and Provincial experience; free September 16th; excellent references. "H. M. B.," 2 Woodstock Road, Walthamstow, E.17.

**P**ART-TIME.—Student Optics; M.P.S., light post or part-time; present Managerial position; tall; good appearance; single; London district. 240/18, Office of this Paper.

**P**HARMACIST, with limited capital, desires post as Manager with view to Purchase; North-West Counties; seaside preferred, but inland not objected to; experienced all branches; excellent references. 239/7, Office of this Paper.

**P**HARMACIST (24), 6 ft., desires post as Manager or Assistant in High-class Business; West End experience; Toilets and Prescribing; free September 14. 240/7, Office of this Paper.

**Q**UALIFIED Chemist; 25 years' good-class experience; highly recommended; London district or Southern Counties preferred. 239/52, Office of this Paper.

**Q**UALIFIED Manager (29), married, desires change where apprenticeship would be shown for exceptional service; 11 years London and Provinces; experienced Dispenser and Photographer; very keen Window-dresser; conscientious worker; reliable references; free one month from appointment. 232/3, Office of this Paper.

**Q**UALIFIED (22) desires post, London or near; free when required; temporary or permanent. 107 Watford Road, North Wembley.

**T**HE services of a Chemist who is disposing of his own business are available; competent Manager; tactful Salesman; good Window-dresser; personality and appearance good; age 31; married; permanency required; excellent references from past employers and the trade. 239/45, Office of this Paper.

**U**NQUALIFIED Assistant (30) requires situation; 12 years' experience Dispensing, Counter and Photographic; present post 5 years; free September 21. 239/39, Office of this Paper.

**U**NQUALIFIED Assistant (24), with 7 years' good varied experience; tall, smart and energetic; free any time. 241/1, Office of this Paper.

**U**NQUALIFIED (bachelor); many years sole control; good Prescriber and Counter; light duties; nominal salary; disengaged September 9th. J. Heely, 259 Underhill Road, East Dulwich, S.E.22.

**U**NQUALIFIED Male (31; 5 ft. 11 ins.) desires change; permanency; over 10 years with present employer; good Window-dresser, Dispenser, Counterhand; all round man; also used to Managing; excellent reference. "C. R. T.," 192 Stroud Green Road, Finsbury Park, N.4.

**U**NQUALIFIED Pharmacist, with Optical Qualification, desires progressive post; undeniable references. Green, 11 Albion Street, South Wigston, Leicester.

**U**NQUALIFIED; tall, single, abstainer; Dispensing, Counter, Photographics. Harris, 27 Lysways Street, Walsall.

### WHOLESALE.

**A**CAPABLE, diligent, well-known gentleman (50) desires re-engagement to represent a firm of unassassable integrity and principles; professional propaganda and/or trade work; own car; Hants and West; sound credentials. "Stability," c/o General Gordon Hotel, Weymouth.

**A**LIVE Representative, with strongly established connection amongst Chemists, Hairdressers and Stores; whole of London; is open to consider well-known house of repute; can prove ability by actual records. Particulars to Keen, 239/47, Office of this Paper.

**A**DAPTABLE Pharmacist (25), with experience of Medical Practice, Dental Practice and Retail Pharmacy, desires Representation with prospects; conscientious and enthusiastic; now in Retail Management. If interested, please write 238/23, Office of this Paper.

**A**DMINISTRATIVE, Representative, Secretarial; Biological or Pharmaceutical Specialities; ten years' experience (age 36). 239/28, Office of this Paper.

**A**VAILABLE on Commission and Part Expenses Basis, My Services; 7 years' sound extensive connection Chemists, Stores; North and South London; own car; lines must have merit. "B.," 66 Crammore Road, West Chislehurst, Kent.

**F**OREWOMAN seeks position in factory; used controlling large staff of female labour; experienced Labelling and Wrapping. M. B., 47 Lowden Road, S.E.24.

**L**ONDON Situation required by thoroughly experienced Tablet Maker; able to take charge of department; good knowledge of Pills, Lozenges, etc. 231/11, Office of this Paper.

**M**EDICAL Representative, disengaged shortly, seeks permanency with reputable house; 10 years' successful experience Medical Propaganda; always favourably received by Profession subsequent visits; keen, adaptable, energetic, conscientious, unimpeachable references. 239/1, Office of this Paper.

**R**EPRESENTATION for Lancs or Yorks wanted by Gentleman (23) with 7 years' Pharmacy experience; tall, smart and reliable. 240/10, Office of this Paper.

**R**EPRESENTATIVE (aged 25), six years' Pharmaceutical, four years' Selling experience; smart appearance; intelligent, enthusiastic worker; seeks position Drugs or Toilets; anywhere. "Scot," 146 Caversham Road, Reading, Berks.

**R**EPRESENTATIVE, Gentleman, having sold his Retail business, desires position on the outdoor staff of a Wholesale Chemist, Toilet House or Allied Trade; 30 years' experience; tall, good appearance; own car. Apply Hardy, 12 Holmwood Avenue, Monkseaton, Northumberland.

**R**EPRESENTATIVE requires change; 10 years' Selling and Propaganda experience with Hospital, Doctors, etc.; good connection; excellent references; own car. 240/12, Office of this Paper.

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**R**EPRESENTATIVE, with strong connection in South London or Eastern Counties, Chemists, Stores, etc., desires to represent established house; good references. N. Izod, 69 Friern Road, London, S.E.22.

**S**ALES Organiser and Publicity Manager; experienced Medical Propagandist; Qualified; open to consider proposition requiring ability, initiative and energy; influential recommendations. P.C.B. 173/36, Office of this Paper.

**S**COTLAND, resident in Edinburgh, lengthy experience; Medical Propaganda, Hospitals, etc.; also First Class Trades Salesman; highest references; many years highest class house; disengaged. "Disengaged," 8 Kaimes Road, Edinburgh 12.

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**"N**ATIONAL" Cash Register; prints all sales; gives total; perfect order; bargain. Write R. Perrins, 17 Thornhaugh Mews, Woburn Square, W.C.1.

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**C**HEMISTS' FITTINGS.—We hold an immense stock of Drug Fittings, Dispensing Screens, Glass-fronted Counters, Perfumery Cases, Nests of Drawers, Wall Cases, Silent Salesmen, Upright and Flat Counter Cases, Plate Glass Counters, Cash Tills, Display Stands and Glass Shelves, etc., at competitive prices. F. MAUND & E. BERG (SHOWCASES), LTD., Shop Fitters and Shop Front Builders, 175/9 Old Street, London, E.C.1.

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**W**ANTED.—National Cash Register; must be in perfect order. Write P.C.B. 173/29, Office of this Paper.

**W**ANTED.—Remington or National Cash Register, urgent, for cash. 266/622, Office of this Paper.

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